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CATEGORY DEFINITIONS

Academic Degree

A qualification, usually determined by the successful completion of a prescribed course of study in higher education that often includes the passing of a comprehensive examination. Academic degrees are normally awarded by a college, university, or any number of professional schools such as medical, nursing, dental, osteopathic, pharmacy, and public health, for example. These institutions commonly offer degrees at various levels, typically including associate (most often a 2-year course of study is required), bachelor (4-year course of study), master (1–2 year course of study after the bachelor's), and doctorate (3–7 year course of study after bachelor's or master's degree).

Bachelor of Arts (BA)

Bachelor of Medicine (BM or MB)

Bachelor of Medicine, Bachelor of Surgery (MBBS or MBChB)

Bachelor of Science (BS)

Doctor of Education (EdD)

Doctor of Jurisprudence (JD)

Doctor of Medicine (MD)

Doctor of Naturopathy (ND)

Doctor of Nursing Practice (DNP)

Doctor of Nursing Science (DNS)

Doctor of Optometry (OD)

Doctor of Osteopathic Medicine (DO)

Doctor of Pharmacy (PharmD)

Doctor of Philosophy (PhD)

Doctor of Podiatric Medicine (DPM)

Doctor of Public Health (DPH)

Doctor of Science (DSc)

Master of Arts (MA)

Master of Business Administration (MBA)

Master of Dental Science (MScD)

Master of Health Administration (MHA)

Master of Nursing (MN)

Master of Public Health (MPH)

Master of Science (MS or MSc)

Master of Science in Dentistry (MSD)

Master of Science in Nursing (MSN or MScN)

Master of Science in Pharmacy (MPh or Mpharm or MScPh)

Master of Science in Social Work (MSW)

Master of Surgery (MS)

Medical Doctorate (MD)

Anatomy

The branch of biomedical science concerned with the bodily structure of humans, animals, and other living organisms. Anatomy is often studied through dissection and separation of individual parts of the body. For an in-depth overview of human anatomy, see: <http://www.innerbody.com/>.

Afferent
Alveolus
Amygdala
Aneurysm
Anterior (ventral)
Anulus
Aorta
Arteries
Artery
Atrium
Axon
Biceps brachii
Blood
Bone marrow
Both eyes (OU)
Cardiac region
Cartilage
Caudal
Central
Cephalic
Cerebral
Cerebrovascular
Cervix
Coronal plane (frontal)
Cortex
Cranial nerves
Cranial region
Deltoid
Dendrite
Diaphragm
Dissect
Distal
Dorsal
Endosteum
Esophagus
External (superficial)
Gastrointestinal (GI) tract
Gluteus maximus

Hair
Heart
Hormones
Humeral
Inferior (caudad)
Innervate
Internal
Interstitial
Intestines
Intraperitoneal
Kidneys
Lateral
Latissimus dorsi
Left eye (OS)
Liver
Lung
Lymph node
Macroscopic
Medial
Membrane
Mouth (Os)
Muscles
Nails
Nerve
Pectoralis major
Periosteum
Peripheral
Placenta cord membranes
Plasma
Posterior (dorsal)
Proximal
Pylorus
Quadriceps femoris
Red blood cell (RBC)
Renal
Right eye (OD)
Right lower arm (RLA)
Right lower quadrant (RLQ)
Right upper quadrant (RUQ)
Sagittal plane
Septum
Serum
Sigmoid colon
Sketch
Skin

Stomach
Striated
Superior (cephalad)
Sweat
Syncytium
Trachea
Transverse plane (axial or cross section)
Triceps brachii
Unilateral
Veins
Vena cava
Ventral
Ventricle
Visceral
Vivisection
White blood cell (WBC)

Application Development

A field of study that includes the set of processes, procedures, and practices of developing software applications. Depending on the size, complexity, and criticality of the application to be developed, the process may involve the use of one or more programming languages, application development frameworks, testing methodologies, and one or more teams of software developers.

- Agile software development

- Capability Maturity Model (CMM)

- Data modeling

- Design effect

- JavaScript Object Notation (JSOM)

- Joint applications design (JAD)

- Logical data model (LDM)

- Logical schema

- Productivity

- Rapid application development (RAD)

- Rapid prototyping

- Requirements analysis

- Software Engineering Institute Capability Maturity Model (SEI-CMM)

- Software quality assurance (SQA)

- Software risk analysis

- Spiral software development

- Subject-matter expert (SME)

- Waterfall method

Artificial Intelligence

A subfield of computer science that focuses on the design, development, use and evaluation of computer-based systems, applications, and algorithms that mimic cognitive processes usually associated with human intelligence. The origins of the field of clinical informatics were in the field of artificial intelligence as researchers attempted to create computer systems that could diagnosis patients' medical conditions. In the late 1980s, after several large-scale, highly visible AI projects failed to meet overly optimistic expectations, federal and commercial funding for new AI project rapidly dried up. This lead to the so-called AI winter. During this period, many AI researchers turned to building much less ambitious "expert systems" that proved very successful. These expert systems were further simplified to what became basic clinical decision support functionality that was widely implemented directly in electronic health records to perform simple drug–drug interaction checks or generate health maintenance reminders. In the early 2000s, with advent of the "big-data" revolution, several AI-type diagnostic decision support systems began to reappear.

Abduction

All source intelligence

Authoring system

Background question

Case-based reasoning (CBR)

Causal reasoning

Chance node

Conceptual knowledge

Connectionism

Consulting model

Consulting system

Critiquing model

Deduction

Evoking strength

Explicit

Facts

Factual knowledge

First principles, reasoning from

Foreground question

Frequency weight

HELP sector

Heuristic

Hypothetico-deductive approach

Immersive simulated environment

Implicit

Import number
Induction
Inference
Influence diagram
Integrative model
Knowledge-based system
Logical positivism
Model-based reasoning
Modus ponens (Latin for “mode that affirms”)
Modus tollens (Latin for “mode that denies”)
Overfitting
Problem solver
Problem space
Problem-solving method (PSM)
Prognostic scoring system
Proposition
Qualitative reasoning
Reasoning
Reasoning about time
Reminder systems
Representation
Rule interpreter
Secondary knowledge-based information
Situation action rules
Skeletal plans
Standard gamble
State diagram
Symbol
Treatment threshold probability
Truth maintenance

Body System

The human body's key systems are composed of collections of cells, tissues, and organs that work together for a common purpose. Each system performs a key role in helping the body to work effectively.

Cardiovascular system

Central nervous system (CNS)

Circulatory system

Digestive system

Endocrine system

Excretory system

Exocrine system

Immune system

Integumentary system

Lymphatic system

Muscular system

Nervous system

Olfactory system

Renal system

Reproductive system

Respiratory system

Skeletal system

Urinary system

Bone

Hard, dense, rigid, yet lightweight and strong, whitish, active, connective tissue that makes up the human skeleton, supports and protects the organs of the body, produces red and white blood cells, stores minerals, and enables mobility. Bones come in a wide variety of sizes and shapes and have a complex three-dimensional internal and external structure. The mineralized matrix of bone tissue has an organic component, mainly collagen, and an inorganic component of bone mineral made up of various salts. In the adult human there are 206 separate bones. The largest bone in the human body is the thighbone (femur) and the smallest is the stapes in the middle ear.

- Carpals
- Cervical ribs
- Cervical vertebrae
- Clavicle
- Coccyx
- Costae (ribs)
- Cranial bones
- Cranium
- Femur
- Fibula
- Frontal bone
- Humerus
- Lacrimal bone
- Lumbar vertebrae
- Mandible (lower jaw)
- Maxillae (upper jaw)
- Metacarpals
- Metatarsals
- Nasal bones
- Occipital bone
- Palatine bone
- Parietal bones
- Patella (knee cap)
- Pelvis
- Phalanges
- Radius
- Sacrum
- Scapula
- Stapes
- Sternum
- Temporal bones
- Thoracic vertebrae

Tibia (shin)
Ulna
Vertebrae
Vertebral column
Zygomatic bone

Chemistry

The branch of science that deals with the identification of the substances of which matter is composed. Chemists also investigate the properties of these substances and the ways in which they interact, combine, and change. Finally chemists study the use of these processes to form new substances. To find specific information about various facets of the field of chemistry, see: <http://www.chemistryguide.org/>.

0°C (freezing point of water)

32°F (freezing point of water)

100°C (boiling point of water)

212°F (boiling point of water)

Acid

Activation energy

Anion

Anode

Aqueous

Atmospheric air

Avogadro's number

Base

Buffer solution

Capacitance

Cation

Cofactor

Concentration

Conductance

Conductivity

Countercurrent

Diffusion coefficient

Electroneutrality

Electrolyte

Filter (for physical material)

Fluorescent

Flux

Half-life

Homogeneous

Isolated

Isotonic

Lyse

Medium

Modulator

Molality

Molarity

Noxious

Osmolarity
Partial pressure in a gas mixture
Permeability
pH
Potentiation
Preparation
Rate constant
Relative humidity
Resistance
Sink
Tonicity
Trace
Turbid
Turbulence
Vapor pressure
Wavelength

Clinical Decision Making

The cognitive process is used by clinicians to decide what is wrong with the patient, what should be done to remedy or alleviate the patient's problem, and when these interventions or procedures should be performed. Often there are many elements of uncertainty in the decision-making process. Therefore, clinicians must assess the probability that a particular patient is (or is not) suffering from a particular illness along with the potential harm that could occur if he or she is wrong. Wrong can be defined as either the patient has a treatable illness and he or she does not recognize it, or the patient is treated for a particular illness that he or she does not have.

- Anchoring bias
- Ascertainment bias
- Assessment bias
- Availability bias (or heuristic)
- Bayesian approach
- Bias
- Clinical guideline
- Clinical judgment
- Cognitive bias
- Cognitive heuristics
- Concordant (test results)
- Confirmation bias
- Context
- Decision analysis
- Decision node
- Decision tree
- Expected utility
- Expected value decision making
- Indifference probability
- Knowledge
- Life expectancy
- Pathognomonic
- Prophylactic
- Protocol (care plan)
- Quality-adjusted life years (QALYs)
- Recency bias
- Referral bias
- Reflective thinking
- Risk attitude
- Risk neutral
- Shared decision-making
- Summative decision

Test interpretation bias

Test referral bias

Utility

Withholding/withdrawing treatment

Clinical Decision Support

Clinical decision support (CDS) is a category of concepts and methods designed to provide patient-specific clinical information to a healthcare provider at the point of care. The goal of CDS is to improve the quality, safety, and reliability of the care provided while at the same time reducing its cost. CDS can take the form of many different types of interventions within an electronic health record. For example, order sets, condition-specific clinical displays, access to reference information, and clinical alerts are all types of CDS that have been designed and developed since the early 1960s. In addition, in the early days of the field of clinical informatics there was a concerted effort to develop diagnostic decision-support systems that would help clinicians create a differential diagnosis and eventually identify the patient's diagnosis. Although the systems were shown to be nearly as effective as expert clinicians, they fell out of favor in the late 1980s and early 1990s. More recently several companies have developed new products using similar techniques, and these applications are slowly gaining a following and have potential to offer high-quality advanced CDS regarding diagnoses to clinicians.

Action item

Action palette

Admission order sets

Alert acceptance rate

Alert fatigue

Alert message

Alert notification

Alert override rate

Alert salience

Alert trigger

Alerts

Antecedent

Antibiotic ordering support

ASBRU—clinical guideline representation language

Automated decision support

Automatic order termination

Backward chaining

Beer's criteria

Black box warnings

Care reminders

Careflow

Clinical content

Clinical content providers

Clinical decision support system (CDSS)

Clinical information online resources
Clinical pathway guideline (CPG)
Clinical Practice Guideline–Reference Architecture (CPG-RA)
Clinical prediction rule
Cognitive artifacts
Computer interpretation
Computer-interpretable guideline (CIG)
Condition-specific order sets
Condition-specific treatment protocol
Consequent
Consultation systems
Context-sensitive information retrieval
Context-sensitive user interface
Cookbook medicine
Critical lab value checking
Critiquing systems
Decision support opportunity map
Declarative knowledge
Default doses/pick lists
Departmental order sets
Description logic
Diagnostic support
Digital electronic Guideline Library framework (DeGeL)
Disease-specific order sets
Documentation aids
Drug/allergy interaction checking
Drug/condition interaction checking
Drug/drug interaction checking
Duplicate order checking
e-Mycin
EON
Evidence grading
Evoking criteria
Expression language
Five rights of clinical decision support
Formalism
Formulary checking
Forward chaining
Framingham equation
Free-text order parsing
Guideline
Guideline Elements Model (GEM)
Guideline Expression Language (GELLO)
Guideline Markup Tool (GMT)
Hard stop

High-risk state monitoring
IBM's Watson
Implication
Indication-based ordering
Interpret
Interpretation systems
Interruptive alert
Intrusive alert
IV/PO conversion
Knowledge acquisition
Knowledge base
Knowledge discovery
Knowledge engineering (KE)
Knowledge management (KM)
Knowledge modeling
Knowledge representation
Laboratory test interpretation
Look-alike/sound-alike medication warnings
Maximum daily dose checking
Maximum lifetime dose checking
Medical logic module (MLM)
Medication/laboratory test cost display
Medication dictionary
Medication dose adjustment
Medication order sentences
MediConsult
Modal alert
Monitoring systems
Nomogram
Noninterruptive alert
Nonintrusive alert
Nonmedication order sentences
Notify me when
Nutrition ordering tools
Order approvals
Order routing
Order sets
Patient-specific relevant data displays
Personal order sets
Plan of care alerts
Polypharmacy alerts
Preventive care reminders
Problem list management
Procedural knowledge
Procedure-specific order sets

Prognostic tools
Quality metric
Question prototypes
Radiology ordering support
Reference links
Registry functions
Representation of time
Risk assessment tools
Risk calculator
Service-specific order sets
Single dose range checking
Standards-Based Sharable Active Guideline Environment (SAGE)
Standing orders
Subsequent or corollary orders
Syndromic surveillance
Synthesize
Systematic review
Tacit knowledge
Tallman Lettering
Task-network model (TNM)
Ticklers
Transfer order set
Transfusion support
Treatment planning
Triage tools
Trigger event
Virtual medical record (vMR)
Weight-based dosing

Clinical Disorder

A functional abnormality or disturbance in one or more parts of the human body. Clinical disorders can be categorized into mental disorders, physical disorders, genetic disorders, emotional and behavioral disorders, and functional disorders. The term disorder is often considered more value-neutral and less stigmatizing than the terms disease or illness, and therefore is often the preferred terminology. In mental health, the term mental disorder is used as a way of acknowledging the complex interaction of biological, social, and psychological factors in psychiatric conditions.

- Abdominal and pelvic pain
- Abdominal aortic aneurysm (AAA)
- Abnormal uterine bleeding
- Above the knee amputation (AKA)
- Acute kidney injury (AKI)
- Acute myocardial infarction (AMI)
- Alcohol abuse (EtOH)
- Alzheimer disease
- Anemia
- Anxiety
- Aortic aneurysm
- Aortic stenosis (AS)
- Arteriosclerosis
- Arthralgias
- Atelectasis
- Atherosclerosis
- Atrial fibrillation (Afib)
- Atrial septal defect (ASD)
- Attention deficit hyperactivity disorder (ADHD)
- Autism spectrum disorder (ASD)
- Back pain
- Below the knee amputation (BKA)
- Benign neoplasms
- Blind
- Bone pain
- Cardiovascular disease (CVD)
- Cervical cancer
- Chest pain
- Chronic condition
- Chronic disease
- Chronic illness
- Chronic kidney disease (CKD)
- Chronic obstructive pulmonary disease (COPD)
- Chronically ill

Cognitive impairment
Coma
Complicated pregnancy
Congenital anomalies
Congestive heart failure (CHF)
Constriction
Coronary artery disease (CAD)
Cough
Crying
Deafness
Deep vein thrombosis (DVT)
Delirium
Delirium tremens (DTs)
Dementia
Dependence
Depression
Developmental disability (DD)
Diabetes mellitus (DM)
Diabetic ketoacidosis (DKA)
Diarrhea
Dilation
Disability
Dysphagia
Dyspnea
Dysuria
Edema
Embolism
Embolus
End-stage renal disease (ESRD)
Erectile dysfunction (ED)
Etiology
Extremity pain
Facial flushing
Facial pain
Fatigue
Fever
Fixation
Flank pain
Frustration
Functionally disabled
Funny Looking Kid (FLK)
Gallbladder disorders
Genital skin lesion
Genital ulcer
Handicapped

Hard of Hearing (HOH)
Headache
Hearing loss
Heart failure (HF)
Hematuria
Hernia
Homebound
Homicide
Hydrops fetalis
Hypertension (HTN)
Hypotension, shock
Impairment
Indication infarct
Intrauterine hypoxia
Ischemia
Labile
Labor/Delivery complications
Learning disability (LD)
Leg pain
Lesion
Lethargy
Limp
Low back pain (LBP)
Lymphadenopathy
Malaise
Malignant
Malignant neoplasms
Memory loss
Mental health
Mental illness/impairment
Mentally retarded/developmentally disabled (MR/DD)
Minimally conscious state
Mitral regurgitation (MR)
Morbid
Muscle cramps
Myalgias
Myocardial infarction (MI)
Nausea
Neonatal hemorrhage
Numbness
Nutritional deficiencies
Obsessive compulsive disorder (OCD)
Occlusion
Oppositional defiant disorder (ODD)
Otalgia

Parkinson disease (PD)
Patent ductus arteriosus (PDA)
Patent foramen ovale (PFO)
Perinatal period
Permanent vegetative state (PVS)
Petechiae
Postpartum depression (PPD)
Pregnancy
Premature atrial contractions (PACs)
Proteinuria
Pruritus
Pulmonary embolism (PE)
Pulmonary hemorrhage
Rash, generalized
Red eye
Scrotal pain
Seizure
Senility
Sensory loss
Seriously emotionally disturbed
Short gestation
Shortness of breath (SOB)
Shoulder pain
Sinus tachycardia
ST elevation myocardial infarction (STEMI)
Suicide
Syncope
Tachypnea
Tinnitus
Torticollis
Transient
Transient ischemic attack (TIA)
Traumatic brain injury (TBI)
Tremor
Tumor
Turgid
Twitch
Vasoconstriction
Venous thromboembolism (VTE)
Ventricular septal defect (VSD)
Vomiting
Weakness
Weight loss

Clinical Procedure

A clinical procedure is a physical process intended to identify a problem or achieve a result in the care of patients with health problems. Clinical procedures can be used for various reasons including: identifying, measuring, diagnosing, treating, restoring structure or function of a specific patient symptom, condition, or specific physiological parameter.

- Acupuncture
- Advanced cardiac life support (ACLS)
- Advanced life support (ALS)
- Anesthesia
- Angiogram (Angio)
- Angiography
- Animal-assisted therapy
- Antivenom
- Aortography
- Apheresis
- Arterial blood gas (ABG)
- Arterial catheter (line)
- Arterial pressure
- Auscultation
- Basic life support (BLS)
- Blood test
- Cancer immunotherapy
- Cancer vaccine
- Cardiac stress test
- Cardioconversion
- Cardiopulmonary resuscitation (CPR)
- Cell therapy
- Central venous catheter (line)
- Central venous pressure (CVP)
- Cerebral angiography
- Chelation therapy
- Chemotherapy
- Cognitive behavioral therapy (CBT)
- Cold compression therapy
- Combination therapy
- Computer-based monitoring
- Coronary angiography
- Coronary arteriography
- Craniosacral therapy
- Cytoluminescent therapy
- Diagnostic bronchoscopy
- Dislocation procedure

Drug therapy
Electrocardiography
Electroconvulsive therapy
Electrocorticography
Electroencephalography
Electromyography (EMG)
Electroneuronography
Electronystagmography
Electrooculography
Electrophoresis
Electroretinography
Electrotherapy
Endoluminal capsule monitoring
Enzyme replacement therapy
Epidural (extradural) block
Esophageal motility study
Evoked potential
Extracorporeal carbon dioxide removal (ECCO2R)
Extracorporeal membrane oxygenation (ECMO)
Facial rejuvenation
Fluid replacement therapy
Fluoride therapy
Fracture procedure
General anesthesia
Heat therapy
Hemodialysis
Hemofiltration
History and physical (H&P)
Hormonal therapy
Hormone replacement therapy
Hydrotherapy
Hyperbaric oxygen therapy
Immunization
Immunosuppressive therapy
In vitro fertilization (IVF)
Infusion
Inhalation therapy
Insulin potentiation therapy
Insulin shock therapy
Intramuscular (IM)
Intravenous therapy
Intubation
Invasive
Laboratory tests
Laser therapy

Life-sustaining treatment
Lithotomy
Lithotripsy
Lithotripter
Local anesthesia
Low-dose chemotherapy
Lymphangiography
Magnetic resonance angiogram (MRA)
Magnetic therapy
Magnetoencephalography
Mechanical ventilation
Medical inspection (body features)
Monoclonal antibody therapy
Nebulization
Negative pressure wound therapy
Nicotine replacement therapy
Noninvasive
Noninvasive monitoring technique
Ophthalmoscopy
Opiate replacement therapy
Oral rehydration therapy
Otoscopy
Oxygen therapy
Palliative care
Palpation
Particle therapy
Patient monitoring
Percussion (medicine)
Perfuse
Phage therapy
Photodynamic therapy
Phototherapy
Physical exam (Px)
Physiotherapy
Plasmapheresis
Point-of-care testing
Pulitzerization
Posturography
Precordial thump
Prophylactic treatment
Proton therapy
Psychotherapy
Pulmonary angiography
Radiation therapy
Radiation therapy planning

Radiography
Regional anesthesia
Respiratory therapy (RT)
Rule out (RO)
Scintillography
Shock therapy
Speech therapy
Spinal anesthesia (subarachnoid block)
Stem cell treatments
Stool test
Subclavian catheter (line)
Subcutaneous (Sub-Q)
Symptomatic treatment
Targeted therapy
Thermography
Thrombosis prophylaxis
Topical anesthesia (surface)
Tracheal intubation
Transcutaneous electrical nerve stimulation (TENS)
Treatment (tx)
Universal precautions
Unsealed source radiotherapy
Vaccination
Vaginal birth after cesarean (VBAC)
Ventriculography
Virtual reality therapy
Vision therapy

Clinical Role

In a healthcare organization there are many different jobs that need to be done. Clinicians with different training and experience do these jobs by fulfilling a “role.” These clinical jobs almost always involve contact with patients. For the most part, they usually require formal study and training after you have finished high school, college, and often medical, nursing, or pharmacy school. It is common for each of these “roles” to have slightly different data access rights or user privileges within an electronic health record [e.g., the ability to write and sign orders for medications is usually allowed only by clinicians with a medical degree (MD, DO) or advanced nursing certification].

- Advice nurse
- Allergist
- Allied health personnel
- Anesthesiologist
- Attending physician
- Biomedical informatician
- Biomedical informaticist
- Board certified
- Cardiologist
- Caregiver
- Case manager
- Certified nurse aide (CNA)
- Certified registered nurse anesthetist (CRNA)
- Chief executive officer (CEO)
- Chief health informatics (information) officer (CHIO)
- Chief information (informatics) officer (CIO)
- Chief information security officer (CISO)
- Chief medical informatics (information) officer (CMIO)
- Chief nursing informatics (information) officer (CNIO)
- Chief operating officer (COO)
- Chief quality and informatics (information) officer
- Clinical champion
- Clinical informatician
- Clinical informaticist
- Clinical nurse specialist (CNS)
- Clinical research informatician
- Early adopter
- EHR super user
- End user
- Expert witness
- Fellow
- Gastrointestinal (GI) specialist

Gatekeeper
General medical practitioner (GP)
General surgeon
Genital-urinary (GU) specialist
Geriatrician
Healthcare paraprofessional
Health data broker
Health data custodian
Health informatician
Health informaticist
Health personnel
Healthcare proxy
Help at the elbow
Home health aide
Hospitalist
House staff
Immunologist
Informatician/informaticist
Intern
Internist
Interprofessional teams
Interventional radiologist
Intravenous (IV) nurse
Licensed clinical social worker (LCSW)
Licensed practical nurse (LPN)
Licensed vocational nurse (LVN)
Medical assistant (MA)
Medical student
Medical technologist (MT(ASCP))
Medical technologist in molecular pathology (MP(ASCP))
Multidisciplinary teams
Neurologist
Neurosurgeon
Nurse
Nurse anesthetist
Nurse practitioner (NP)
Nursing student
Obstetrician/Gynecologist (OB/GYN)
Occupational therapist (OT)
Orderly
Orthopedist
Parents or relatives
Pharmacist
Pharmacy technician
Physical therapist (PT)

Physician assistant (PA)
Plastic surgeon
Podiatrist
Postgraduate year (PGY) 1–8
Primary care provider (PCP)
Private duty nursing
Provider
Pulmonologist
Registered dietician (RD)
Registered nurse (RN)
Registered pharmacist (RPh)
Research informatician
Resident
Respiratory therapist (RT)
Respite care
Service class provider
Service class user
Skilled care
Stakeholder
Support groups
Surgeon
Surrogate
Trauma surgeon
User training

Clinical Specialty

A clinical specialty is a name for a particular branch of medicine. After completing their medical school training, physicians or surgeons usually further their medical education in a specific specialty of medicine by completing a multiple year residency training program and sometimes an additional multiple year fellowship training program to become a medical specialist. In most cases there are additional tests or “board examinations” that these clinicians must pass before they are able to practice as a board-certified specialist in their chosen subfield of medicine or surgery.

Adolescent medicine

Allergy and immunology

Anesthesiology

Cardiology

Clinical and laboratory medicine

Colon and rectal surgery

Critical care medicine

Cytopathology

Dermatology

Diagnostic radiology

Digital radiology

Emergency medicine

Endocrinology

Family medicine

Family practice

Forensic pathology

Forensic psychiatry

Geriatrics

Gerontology

Gynecology (GYN)

Hematology

Hyperbaric medicine

Infectious diseases (ID)

Internal medicine (IM)

Medical genetics

Microbiology

Nephrology

Neurology

Nuclear medicine

Obstetrics (OB)

Oncology

Ophthalmology

Orthopedic surgery

Orthopedics

Otolaryngology
Pain medicine
Pathology
Pediatrics
Plastic surgery
Podiatry
Preventive medicine
Psychiatry
Pulmonary medicine
Radiation oncology
Radiology
Rehabilitation services
Rheumatology
Speech therapy
Sports medicine
Surgery
Thoracic surgery
Transfusion medicine
Urology
Vascular surgery

Clinical Syndrome

A clinical syndrome describes a patient state that consists of a constellation of several medical signs, symptoms, and/or other physical or emotional characteristics that often occur together. Some syndromes, such as Down syndrome, have only one cause; others, such as Parkinsonian syndrome, have multiple possible causes. In other cases, the cause of the syndrome is unknown.

Acquired immunodeficiency syndrome (AIDS)

Acute coronary syndrome (ACS)

Acute respiratory distress syndrome (ARDS)

Andersen syndrome

Down syndrome

Menopause

Premenstrual syndrome (PMS)

Severe acute respiratory syndrome (SARS)

Shock

Spell

Stockholm syndrome

Sudden infant death syndrome (SIDS)

Systemic inflammatory response syndrome (SIRS)

Tetralogy of Fallot

Vertigo

Wolf–Hirschhorn syndrome

Communication

The act or process of using mutually agreed upon words, sounds, pictures, gestures, or behaviors to convey an intended meaning (e.g., thoughts, feelings, findings, or ideas) from one group to another. There are numerous options or channels (e.g., visual, haptic, auditory, olfactory, electromagnetic, kinesics, or biochemical) in which this communication can occur. Human communication is unique and often open for numerous interpretations due to its extensive use of abstract language constructs involving words, signs, symbols, or sounds.

Acknowledgment

Asynchronous

Body of message

Channel

Channel capacity

Header of message

Isochronous

Listserve

Mailing list

Public area branch exchange

Public switching telephone network

Receiver

Sender

Signal-to-noise ratio

Situation, Background, Assessment and Recommendation (SBAR) technique

Social contagion

Social network

Spam

Spamming

Synchronous communication

Transaction set

Voicemail

Computational Algorithm

A computational algorithm (pronounced AL-go-rith-um) is an unambiguous set of steps, a procedure, or a formula a computer can use to perform a specific task or solve a problem. Algorithms can be expressed in any language, including natural languages such as English, French, or Spanish to advanced programming languages such as Perl, C++, or Java. A computer uses algorithms to solve specific problems. There can be many different algorithms to solve the same type of problem. The most “elegant” algorithms often have the fewest steps, execute the fastest, and use the least amount of computer memory.

AdaBoost

Algorithm accuracy evaluation

Algorithm performance, space

Algorithm performance, time (big O)

Apriori algorithm

Artificial neural networks (ANN)

Association rule learning algorithm

Averaged one-dependence estimators (AODE)

Backpropagation

Basic Local Alignment and Search Technique (BLAST)

Bayesian algorithm

Bayesian belief network (BBN)

Binary search

Boosting

Bootstrapped aggregation (bagging)

Breadth-first search

Bubble sort

C4.5 and C5.0 (different versions of a powerful approach)

Chi-squared automatic interaction detection (CHAID)

Classification and regression tree (CART)

Collaborative filtering

Computational complexity

Conditional decision trees

Convolutional neural network (CNN)

Crowdsourcing

Cryptographic hashing functions

Data compression algorithm

Decision stump

Decision tree algorithm

Deep belief networks (DBN)

Deep learning algorithm

Deep Boltzmann machine (DBM)

Depth-first search

Dimensionality reduction algorithm
Eclat algorithm
Elastic Net
Ensemble algorithm
Evolutionary algorithm
Exhaustive search
Expectation maximization (EM)
Feature selection algorithm
Filtering algorithm
Finite-state machine
First-order predicate logic
Flexible discriminant analysis (FDA)
Fourier transform
Gaussian Naive Bayes
Generalized linear models
Genetic algorithms
Gradient boosted regression trees (GBRT)
Gradient boosting machines (GBM)
Hash function
Hierarchical clustering
Hopfield network
Huffman coding
Insertion sort
Instance-based algorithm
Iterative Dichotomiser 3 (ID3)
k-Means
k-Medians
k-Nearest Neighbor (kNN)
Learning vector quantization (LVQ)
Least absolute shrinkage and selection operator (LASSO)
Least-angle regression (LARS)
Lift
Linear discriminant analysis (LDA)
Linear regression
Locally estimated scatterplot smoothing (LOESS)
Locally weighted learning (LWL)
Lossless compression
Lossy compression
M5
Markov cycle
Markov model
Markov process
Merge sort
Mixture discriminant analysis (MDA)
Multidimensional scaling (MDS)

Multinomial Naive Bayes
Multivariate adaptive regression splines (MARS)
Naive Bayes
Neural network
NP hard
Numerical methods
Ordinary least squares regression (OLSR)
Partial least squares regression (PLSR)
Perceptron
Performance measures
Principal component analysis (PCA)
Principal component regression (PCR)
Probabilistic matching algorithm
Projection pursuit
Proxy calculations
Quadratic discriminant analysis (QDA)
Quick sort
Radial basis function network (RBFN)
Random forest
Recursive algorithms
Refinement
Regression algorithm
Regularization algorithm
Reinforcement learning
Ridge regression
Sammon mapping
Seasonal and Trend decomposition using Loess (STL decomposition)
Secure Hash Algorithm 1 (SHA-1)
Secure Hash Algorithm 2 (SHA-2)
Self-organizing map (SOM)
Semisupervised learning
Stacked auto-encoders
Stacked generalization (blending)
Stepwise regression
Supervised learning
Support vector machine (SVM)
t-Distributed Stochastic Neighbor Embedding (t-SNE)
Training data set
Transpose
Unsupervised learning
Verhoeff algorithm
Viterbi algorithm

Computer Application

An application is a computer program, or group of interacting programs, that perform a set of coordinated tasks to help the user. Applications run inside of the computer's operating system software. Applications designed for desktop or laptop computers are referred to as desktop applications. Applications built specifically for mobile computing platforms are often called apps.

AI-Rheum

Antibiotic Assistant Program

Armed Forces Health Longitudinal Technology Application (AHLTA)

Attending

Automated Medical Record (AMR)

Backwards compatibility

Bar Code Medication Administration (BCMA)

Behavioral Risk Factor Surveillance System (BRFSS)

Best-of-breed

Billing System

Biomed Central

Blue Button

Brigham & Women's Integrated Computing System (BICS)

Browser

Citation manager

Clinical data registry

Clinical data repository (CDR)

Clinical documentation

Clinical Image Access Service (CIAS)

Clinical information system (CIS)

Clinical Observation Access Service (COAS)

Clinical Trials Management System (CTMS)

[ClinicalTrials.gov](https://clinicaltrials.gov)

Coaching expert system

Common Object Request Broker Architecture (CORBA)

Composite HealthCare System II (CHCS-DoD)

Computational propaganda

Computer-Assisted Patient Interviewing (CAPI)

Computer-Based Training (CBT)

Computer program

Computer-Stored Ambulatory Record System (COSTAR)

Computer-based Patient Record System (CPRS)

Computerized Patient Record (CPR)

Computerized Physician/provider Order Entry (CPOE)

Continuous speech recognition

Control system

Custom-designed system
Data acquisition
Data compression
Data processing
Data recording
Data transcription
Data transformation
Database management
Database management system (DBMS)
Debugger
Decision-support system
Departmental system
Disease registry
DxPlain
e-Consent
Electronic Health Record (EHR)
Electronic mail (e-mail)
Electronic medical record (EMR)
Electronic Medication Administration Record (eMAR)
Electronic nursing record
Electronic Patient Record (EPR)
Electronic Transmission of Perscription (ETP)
Enterprise Information System (EIS)
Enterprise Master Patient Index (EMPI)
Expert system
Fraud detection
Front-end application
General regular expression parser (GREP)
Geographic Information Systems (GIS)
Gmail
Graph database
Groupware
Guidance
Hadoop
Health Evaluation through Logical Programming (HELP)
Health Information Exchange (HIE)
Helper app
Homepage
Hospital Information System (HIS)
Iliad (Diagnostic Decision Support System)
Image recognition
Immunization registry
Inference engine
Information processing
Integrating Information from Bench to Bedside (I2b2)

Interactive Voice Response (IVR)
Interface engine
Internet Browser
Internist-1
Inventory management
Kaggle
Knowledge base system
LaTeX
Longitudinal medical record
Management Information System (MIS)
Map reduce
Master Patient Index (MPI)
Master Provider File (MPF)
Medlars online (Medline)
MedlinePlus
MedWeaver
Metathesaurus
Mosaic browser
Mycin
Newsgroup
Niche vendor
Nursing information system
Object-oriented database
Oncocin
OPAL
Optical character recognition (OCR)
Order entry
Order entry system
Pathfinder
Patient care system
Patient portal
Patient tracking application
Patient-centered Access to Secure Systems Online (PCASSO)
Pediatric Early Warning Score (PEWS) system
Personal Health Record (PHR)
Personally controlled health management system
Personally controlled health record
Pharmacy information system
Picture Archiving and Communication (PACS)
Plugin
Point of care system
Practice management system
Problem-oriented Medical Record System (PROMIS)
PRODIGY
PROforma

Protégé
Prototype system
Provider profiling system
PubMed
Question answering programs
Quick Medical Record (QMR)
Recommendation engine
Red Cap
Relational Data Base Management System (RDBMS)
Relational database
Report Program Generator (RPG)
Results review
Rule-based expert system
Search engine
Search technology
Siri
Skype
Social media
Specialized registry
Speech recognition
Speech understanding
Spreadsheet
Statistical package
System programs
Technicon medical information system (TMIS)
The Medical Record (TMR)
Third-party
TRICARE Online
Turnkey system
Vaccine Adverse Event Reporting System (VAERS)
Value-added reseller (VAR)
Vista
Voice recognition
Web BLOB Service (WBS)
Web browser
Web catalog
Web crawler
Web-Based Training (WBT)
Wizorder
Word processor

Computer Architecture

A computer's architecture provides a framework for the rules that describe the capabilities, functionality, organization, and sometimes the methods of implementing various types of applications or computer systems.

- Application program
- Applications design
- Architecture (computer, information)
- Archival storage
- Batchmode
- Business logic layer
- Central computing system
- Centralized database
- Client/server architecture
- Complex Instruction Set Computing (CISC)
- Computer architecture
- Data layer
- Distributed Component Object Model (DCOM)
- Distributed data architecture
- Dynamic Data Exchange (DDE)
- Emergency Data Sets Framework (EDSF)
- Federal Health Architecture (FHA)
- Federated model
- Health informatics Service Architecture (HISA)
- Health information access layer (HIAL)
- High-level process
- Integrated versus interfaced
- Java Database Connectivity (JDBC)
- Lexicon query service (LQS)
- Low-level process
- Massive Parallel Processing (MPP)
- Medicaid Information Technology Architecture
- Middleware
- Modular computer system
- Multiprocessing
- Multiuser system
- National Information Infrastructure (NII)
- Network-based hypermedia
- Online Transaction Processing (OLTP)
- Open system
- Parallel processing
- Patient Identification Services (PIDS)
- Presentation layer
- Reduced Instruction Set Computing (RISC)

Reference architecture
Reference Model for Open Distributed Processing
Regulated clinical research information model
Remote Job Entry (RJE)
Remote Procedure Calls (RPC)
Representational State Transfer (REST)
Scalability
Sequential Access Method (SAM)
Service-oriented Architecture (SOA)
Simple Object Access Protocol (SOAP)
Single user system
System
Systems aggregation
Systems integration
Terminal server
Terminate and Stay Resident (TSR)
Timesharing mode
Turing machine
User interface layer
von Neumann machine
Very Large Scale Integration (VLSI)
View schemas
Virtual Storage Access Method (VSAM)
Visual Basic Architecture (VBA)
Web Access to DICOM-persistent Objects (WADO)
Workflow engine
World Wide Web (WWW)

Computer Hardware

Computer hardware, often referred to as hardware when discussing computer-related topics, are the physical elements used to create a functional computer system, such as the microprocessor, memory, network, monitor, keyboard, data storage, all of which are tangible physical objects. By contrast, software is the set of instructions that can be stored and run by hardware to complete a task.

- Analog computer
- Application service provider (ASP)
- Backup electrical generator
- Cable
- Cathode ray tube (CRT)
- Central monitor
- Central processing unit (CPU)
- Client
- Cloud computing
- Compact disk (CD)
- Compact disk read-only memory (CD-ROM)
- Computer on Wheels (COW)
- Computer system
- Data bus
- Deactivate
- Digital computer
- Digital subscribe line (DSL)
- Digital video disk (DVD)
- Direct-access storage device (DASD)
- Display monitor
- Distributed computing system
- Dynamic random-access memory (DRAM)
- Electronic Numerical Integrator and Computer (ENIAC)
- Environment (computing)
- Exam room computers
- File server
- Flash card
- Flash memory
- Floppy disk
- Handheld device
- Hard disk
- High performance computing (HPC)
- Hot site backup
- Ink-jet printer
- Integrated circuit (IC)
- Laptop computer

Laser printer
Life cycle
Liquid crystal display (LCD)
Macintosh
Magnetic disk
Magnetic tape
Mainframe computer
Medical information bus (MIB)
Memory
Memory stick
Microchip
Modulator-demodulator (MODEM)
Netbook computer
Network protocol
Off-line device
Online device
Optical disc
Original equipment manufacturer (OEM)
Patient monitor
Personal computer (PC)
Personal digital assistant (PDA)
Physicians' workstation
Print server
Printer
Product
Random-access memory (RAM)
Raster scan display
Read-only memory (ROM)
Read-only backup
Reboot (computer)
Red electrical outlet/plug
Redundant array of independent (inexpensive) disks (RAID)
Scanning devices
Server
Smartphone
Star topology
Storage
Switch
System integration
System interface
Telemedicine technologies
Terminal
Terminal interface processor
Test system
Thick client

Thin client
Transmitter
Twisted-pair wires
Uninterruptible power supply (UPS)
Universal workstation
Variable memory
Video display terminal (VDT)
Virtual memory
Volatile memory
Warm site backup
Workstation
Workstation-on-wheels (WOW)
Write it once system
Write once read many (WORM)

Computer Networking

The use of computers and associated hardware to create a telecommunications network that can be used to facilitate the exchange of data, information, or services among individuals, groups, or institutions. Computer networks often differ in their transmission medium (e.g., copper wires, fiber optics, radio frequencies, or microwaves) used to carry their signals, communications protocols to organize network traffic, the network's size, topology, and organizational intent. In most cases, application-specific communications protocols are layered (i.e., carried as payload) over other more general communications protocols.

127.0.0.1 (localhost)

Advanced Research Project Agency Network (ARPANET)

Asymmetric digital subscriber line (ADSL)

Asynchronous Transfer Mode (ATM)

Backbone network

Bandwidth

Baud rate

Bit rate

Bits per second

Bluetooth

Broadband network

Broadband signal

Broadband transmission

Circuit switched network

Citrix

Coaxial cable

Communication protocol

Computer network

Cyberspace

Daisy chain networking

Dial tone multifrequency (DTMF)

Domain

Dynamic DNS (domain name service)

Ethernet

Fiber-optic cable

Frame relay

Gateway

Gigabit per second (Gbps)

Global system for mobile communications (GSM)

Hyperlink

Information super highway

Integrated Delivery System/Network (IDS) (IDN)

Internet

Internet relay chat (IRC)

Intranet

IP address
Latency
Local area network (LAN)
Megabit
Megabits per second (Mbps)
Microwave
Name authority
Name server
National Health Information Infrastructure (NHII)
National Health Information Network (NHIN)
Network
Network access provider
Network bridge
Network latency
Network node
Network operating system
Network router
Network services
Network stack
Network topology
Next-generation Internet
Node
Open Systems Interconnection (OSI) seven layer model
Packet
Packet-switched network
Peer-to-peer networking
Private branch exchange (PBX)
Proxy
Remote access
Remote presence health care
Router
Secure hypertext transfer protocol (SHTTP)
Store and forward
Subnet
System administration
Telecommunication
Telepresence
Token ring ethernet
Transmit (XMT)
Transmittal (XMTL)
Uniform resource identifier (URI)
Uniform resource locator (URL)
Uniform resource name
Wide area network (WAN)
Wi-Fi (Wireless Infrastructure)
WiFi Spectrum

Computer Programming

Computer programming (or just programming) is a process that leads from the initial formulation of a problem that the computer can help solve through the intricate process required to create an executable computer program. The programming process involves activities such as analysis of the problem or entire business, developing understanding of the tasks to be accomplished and the existing workflow, generating algorithms required to manipulate the data elements required to solve the problem, verification of requirements of the chosen algorithms including their appropriateness, correctness, computational resource consumption, and implementation of these algorithmic concepts (commonly referred to as coding) in the chosen programming language. The purpose of programming is to find a sequence of instructions that will automate performing a sequence of specific tasks or solving a given problem. The process of programming thus often requires expertise in many different subjects, including knowledge of the application domain, specialized algorithms and formal logic.

Active storage

Addition

Agile

Agile coach

Ajax

Alphabetic ordering

Analog-to-digital conversion (ADC)

Android

Applets

Application Programming Interface (API)

Apps

Assembler

Assembly code

Binary sort

Bit (short for binary digit)

Boot

Buffer

Buffer overflow

Burn down

Business logic

Closed loop control

Code

Code review

Coercion

Command
Compiler
Compiler optimization
Computed check
Computer bug
Computer-readable content
Concept modeling
Consistency check
Constraint-based programming
Construction
Daily standup
Data accessibility
Data architecture
Data capture
Data control structure
Data element
Data flow
Data flow diagram
Data independence
Data mediator
Data model
Data quarantining
Data set
Data storage
Data stream
Database
Database recovery
Debug
Delta check
Demonstration (demo)
Design by constraint
Division
Document Type Definition (DTD)
Dynamic programming
Entity, attribute, value (EAV)
Entity–Relationship diagram (ER or ERD)
Error trap
Exception handling
Extended Architecture Operation System (XA)
Floating point exception
Generalization
Global variable
Hash table
Hashing

Hierarchical database
Information Object
Information Object Class
Information Object Instance
Input
Integrated Development Environment (IDE)
Interpreter
Iteration
Iterative
Java 2 Platform, Enterprise Edition (J2EE)
Job
jQuery
Kernel
Late binding
Linux
Local variable
Machine code
Macro
Markup
Marshalling
Mathematical operations
Model View Controller (MVC)
Multiplicity
Multiprogramming
Node.js
Object
Object modeling
Object oriented programming (OOP)
Object-based approach
Object-oriented analysis
Object-oriented programming
Open loop control
Output
Page
Pattern check
Pointer-to-data
Product backlog
Product owner
Regular expression
Remote Method Invocation (RMI)
Requirements development process
Resource Definition Format (RDF)
ReST Protocol
Retrospective

Rounding error
Scrum
Semantic web
Serialization
Service
Shell script
Simultaneous access
Simultaneous controls
Software
Software assurance
Software design patterns
Software engineering
Source
Source code compartment
Specialization
Sprint
Sprint backlog
Sprint planning
Sprint review
Structured programming
Stub
Style sheets
Subtraction
Synchronization
System specification
Systems development
Team velocity
Technical specifications
Termination
Text editor
Truncate
Type checking
Unified Modeling Language (UML)
Unix
User stories
Virtual addressing
Virtualization
Waterfall model
Website design
Windows
Word
Word size
Working memory
Wrapper

Computer Security

The protection of computers and the computing infrastructure (i.e., hardware, software, data, information, or knowledge) from theft, damage, disruption, or misdirection of services it provides. It includes protecting and controlling physical access to the hardware, as well as protecting the software or data from harm that may come via inappropriate network access, data corruption, or code injection due to malicious activities by internal or external agents, whether intentional, accidental, or due to someone being tricked into deviating from routine security procedures.

Acceptable use policy

Access

Access control mechanism

Active content

Administrative safe guards

Advanced persistent threat

Adversary

Anonymization of data

Asset

Availability

Backup

Behavior monitoring

Bioterrorism

Bootkit

Box

Business continuity

Check digit

Checksum

Cipher

Ciphertext

Code escrow

Completely Automated Public Turing test to tell Computers and Humans Apart (Captcha)

Computer forensics

Computer security incident

Consequence

Continuity of operations plan

Cryptanalysis

Cryptographic algorithm

Cryptographic encoding

Cryptography

Cryptology

Cyber ecosystem

Cyber exercise

Cyber incident
Cyber incident response plan
Cyclic redundancy checks
Data availability
Data breach
Data encryption
Data encryption standard
Data integrity
Data leakage
Data loss
Data lost prevention
Data privacy
Data redundancy/mirroring
Data reidentification
Data spill
Data theft decipher
Dated administration
Decode
Decrypt
Decryption
Digital forensics
Disaster recovery
Disaster recovery plan (DRP)
Downtime
Encipher
Encode
Encrypt
Encrypted
Encryption
Enterprise risk management
Event
Exfiltration
Exploit
Exploitation analysis
Exposure
Failure
Fletcher's checksum
Identification (ID)
Incident management
Incident response
Incident response plan
Information assurance
Information assurance compliance
Information communication technology (ICT) supply chain threat

Information security policy
Information sharing
Information system resilience
Information system security operations
Information Technology (IT) asset
Insider threat
Integrated risk management
Integrity
Intelligence, surveillance, and reconnaissance (ISR)
Intense
Internet Security Assessment (ISA)
Investigate
Investigation
Keep pair
Keystroke logger
Lots of Copies Keep Stuff Safe (LOCKSS)
Machine learning and evolution
Master boot record
Minimum necessary data set
Mitigation
Moving target defense
Multilevel security
Operational exercise
Outsider threat
Passive attack
Physician identification number (PIN)
Plaintext
Precursor
Preparedness
Privacy
Protected health information (PHI)
Provider identification number (PIN)
Recovery
Redundancy
Reidentification
Resilience
Response
Response plan
Risk analysis
Risk assessment
Risk mitigation
Risk-based data management
Rootkit
Secret key
Secret key cryptography

Secure Hash Standard (SHA)
Secure shell (ssh)
Security architecture and policy
Security audit
Security automation
Security flaw
Security incident
Security policy
Security program management
Security provision
Security risk assessment
Situational awareness
Situation State
Spear phishing
Spillage
Spoofing
Symmetric cryptography
Symmetric encryption algorithm
Symmetric key
Tabletop exercise
Tailored trustworthy space
Targets threat
Terminal ID (TERMID)
Threat actor
Threat agent
Threat analysis
Threat and vulnerability assessment (TVA)
Threat assessment
Ticket
Traffic light protocol
Unauthorized access
User Datagram Protocol (UDP)
User Identification (USERID)
Vulnerability
Vulnerability assessment and management
Web widget
Whale phishing
White list
White-hat hacker
Wipe the disk

Computer-Based Education

A type of curricula in which students interact with a computer as a key element of the learning process. Students may read materials, watch or listen to recordings, complete exercises, interact with models or simulations, and discuss examples, via computer rather than receiving the information from printed materials or an instructor's oral presentation. Computer-based education is most often accomplished asynchronously, in that the instructor and students are most often not interacting or communicating with each other at the same time.

Avatar

Computer-based simulation

Conceptual fidelity

Confederate

Continuing medical education (CME)

Discrete event simulation

European Computer Driving Licence (ECDL)

International Computer Driving Licence (ICDL)

Maintenance of certification (MOC)

Manikin (mannequin)

Massive Open Online Course (MOOC)

Professional development

Simulated patient

Standardized patient

Transformation-based learning

Tutoring system

Virtual patient

Corporation

A corporation is a legal entity that is separate and distinct from its owners. Corporations enjoy most of the rights and responsibilities that an individual possesses. For example, a corporation has the right to enter into contracts, loan and borrow money, sue and be sued, hire employees, own assets and pay taxes. It is often referred to as a “legal person.” This means that the corporation itself, not the people who make it up or the people who own it, is held legally liable for the actions and debts the business incurs.

Allscripts

Aprima Medical Software

AthenaHealth

Cerner Corporation

Computers Programs and Systems, Inc. (CPSI)

eClinicalWorks (eCW)

ECRI

E-MDs

Epic Systems Corporation

General Electric (GE) Health care

Greenway Medical Technologies

Hospital Corporation of America (HCA)

International Business Machines (IBM)

Meditech

NextGen Healthcare Information Systems Inc.

Practice Fusion

Red Hat

Surescripts

Telco

Data Analysis

A systematic process for collection of raw data, inspecting, cleaning, transforming, and modeling that data with the goal of turning it into useful information, suggesting conclusions, and supporting decision-making.

Data variability

Data variety

Data velocity

Data veracity

Data volume

Digital signal processing (DSP)

Drill-down analysis

Frequency modulation

Garbage in, garbage out (GIGO)

Instrumental variable

Pattern recognition

Pharmacokinetic parameters

Pharmacovigilance

Protocol analysis

Waveform template

Wavelet compression

Data Structure

A manner in which data can be organized in a computer so that they can be used efficiently in an algorithm or for analysis. A data structure is a concrete implementation of a specific abstract data type. Different kinds of data structures are suited to different kinds of applications, and some are highly specialized to specific tasks. Data structures provide a means to manage large amounts of data efficiently.

- Address (data)
- Associative array
- Binary tree
- Data arrays
- First in, first out (FIFO)
- First in, last out (FILO)
- Graph
- Linked list
- Sets
- Stack (data)
- Tree

Data Type

The term data type is used in different scientific contexts to refer to the methods of classifying data according to the possible values for that type, the operations (e.g., statistical methods) that can be done on values of that type, the meaning of the data, and (especially in computer science) the way values of a particular type of data can be stored.

- 9-digit ZIP Code Plan (ZIP + 4)

- Absolute time

- Alphabet

- Alphanumeric

- Analog data

- Analog signal

- Array

- Array list

- Bit array

- Bitmap

- Boolean (true or false)

- Cartesian tree

- Character

- Circular buffer

- Coded data

- Common Clinical Data Set

- Container

- Continuous data

- Control table

- Data

- Datum

- Delimited character string

- Digital data

- Digital signal

- Discriminated union

- Disjoint union

- Double floating point

- Double-ended queue

- Doubly linked list

- Dynamic array

- Enumerated

- Floating point

- Free list

- Freetext

- Genetic data

- Geospatial data

Greenwich mean time (GMT or ZULU)

Gregorian date

Hashed array tree

Iliffe vector

Image data

Integer

Interval scale

Irrational number

Julian date

List

Lookup table

Medical data

Multidimensional data

Multimap

Multiset

Noise

Nominal scale

Nonnumeric characters

Ordinal scale

Outcomes data

Parallel array

Patient specific information

Patient-generated data

Pixel

Priority queue

Queue

Randomized binary search tree

Ratio scale

Rational number

Real number

Record

Relative time

Self-balancing binary search tree

Serial data

Set

Sorted array

Sparse array

Sparse matrix

Structured content

Tagged union

Telemetry

Tuple

Unstructured data

Value set

Variable-length array
Variant record
Vector
Weight-balanced tree
XOR linked list
Year (YR)
Year (YYYY)
Year 2000 (Y2K)
Year of birth (YOB)
Year-to-date (YTD)

Data Visualization

Data visualization involves the graphical display of data to facilitate its analysis and communication by making it more accessible, understandable, and usable. Data visualization can be both an art and a science. To convey ideas effectively, the data's aesthetic form and functionality must be accurately portrayed.

- Abscissa
- Amplitude
- Asymptote
- Augmented reality
- Bar chart
- Bar graph
- Baseline
- Boundary conditions
- Box and whiskers plot
- Bubble chart
- Data display
- Flowcharts
- Forest plot
- Graph
- Graphical analysis
- Line
- Logarithmic scale
- Minimum
- Monotonic
- Ordinate
- Orthogonal
- Overshoot
- Peak
- Plateau
- Rate of change
- Sinusoidal waveform
- Slope
- Spike
- Star plot
- Time course
- Trend
- Trough
- Undershoot
- Waveform
- Whiskers plot

Data Warehousing

The process of creating a central repository of data often uploaded from multiple disparate operational data sources that can be used for data analysis and reporting. The data are often transformed from the operational or transactional systems and integrated (or combined) to facilitate different types (e.g., longitudinal) of queries.

Administrative versus clinical data

Aggregate content

Appliances

Appropriate field size/type for data

Atomicity

Atomicity, consistency, isolation, durability (ACID)

Attribute

Batch mode processing

Business intelligence

Byte

Charge master

Chron jobs

Clean the data

Conform to mention

Consistent, standardized internal data naming

Content structuring

Data aggregation

Data attribute

Data consistency

Data consolidation (reduction)

Data cubes

Data Description Language (DDL)

Data dictionary

Data Dictionary Definition Language (DDDL)

Data dimensions

Data Element Catalog

Data integration

Data mining

Data retention policy

Data synthesis

Data Views

Data warehouse

Database backup

Datamart

Deletes

Denormalization

Deprecate

Dimensional model
Dimensional table
Draw up
Drill across
Drill down
Drill through
Durability
Electronic Data Capture (EDC)
Electronic Data Interchange (EDI)
Enterprise Data Warehouse (EDW)
Entity
Entity Frameworks
Entity–Relationship model
Exabyte
Extract, Transform, Load (ETL)
Fact table
Field
Flag fields (binary)
Flat files
Foreign key
Function graphs
Functional programming
Gantt chart
Geospatial maps
Gigabyte (Gb)
Global Unique Identifiers as primary keys (GUIDs as PKs)
Graphical Query Language (GQL)
Heat map
Hierarchy
Histogram
Inner join
Inserts
Isolation
Joins
Key field
Level of data normalization (first-, second-, third-level normalization)
Line graph
Longitudinal query
Maintenance of raw data after cleansing
Many-to-many relationship
Master Provider Index (MPI)
Megabyte (MB)
Metadata
Model organism database

Multidimensional OLAP
Nightly download
NoSQL (not only SQL)
Null
Off-site storage
One field–one concept
One version of the truth across the enterprise
Online analytical processing (OLAP)
Open Data Base Connectivity (ODBC)
Outer join
Performance benchmarks
Petabyte (Pb)
Pie chart
Postgenomic data base
Primary key
Query tuning/optimization
Query-by-example
Radar plot
Read-only access/privileges
Real-time data upload
Referential integrity
Report date
Research Data Repository (RDR)
Rolling benchmark calculation
Scatter plot
Schema
Secondary use of data
Slice and dice
Snowflake schema
Sparklines
Table relationship mapping
Tables
Terabyte (Tb)
Time series plot
Timelines
Transactional system
Tree map
Trigger
Twinkling database
Updates
Value
Virtual data warehouse (VDW)
Warehousing
X–Y plots
Yottabyte

Disease

Refers to any condition that impairs the normal functioning of the human body. Diseases are often associated with some type of dysfunction within the body's normal homeostatic process. Commonly, the term disease is used to refer specifically to infectious diseases, that result from the presence of pathogenic microbial agents, including viruses, bacteria, fungi, protozoa, multicellular organisms, and aberrant proteins known as prions. There are also noninfectious diseases, including most forms of cancer, heart disease, and genetic disease. Four main types of diseases are typically considered: pathogenic diseases, deficiency diseases, hereditary diseases, and physiological diseases.

Acute bronchitis
 Acute disease
 Acute illness
 Anthrax
 Appendicitis
 Bacterial sepsis
 Black lung (pneumoconiosis)
 Chronic lower respiratory disease
 Cytomegalovirus (CMV)
 Diphtheria
 Epidemic
 Gastroesophageal reflux disease (GERD)
 Graft versus host disease (GVHD)
 Group B strep
 Haemophilus influenza
 Heart disease
 Hepatitis B (Hep B)
 Hepatitis C virus (HCV)
 Human immunodeficiency virus (HIV)
 Human papillomavirus (HPV)
 Influenza (flu)
 Ischemic vascular disease
 Japanese encephalitis (JE)
 Liver disease
 Measles
 Meningitis
 Meningococcal infection
 Methicillin-resistant Staphylococcus aureus (MRSA)
 Mumps
 Necrotizing enterocolitis (NEC)
 Nephritis
 Pathogen

Pathological
Peptic ulcer
Pertussis
Pneumococcal pneumonia
Pneumonia
Pneumonitis
Polio
Rabies
Reportable diseases
Respiratory distress
Respiratory syncytial virus (RSV)
Rotavirus
Rubella
Septicemia
Sexually transmitted disease (STD)
Shingles
Smallpox
Symptoms (Sx)
Systemic lupus erythematosus (SLE)
Tetanus
Tuberculosis (TB)
Upper respiratory infection (URI)
Urinary tract infection (UTI)
Varicella
Venereal disease (VD)
Viral hepatitis
Virus
Yellow fever
Zika virus

Electronic Health Record Function

An electronic health record is a compilation of software routines that provide all the features and functions (e.g., data capture, order creation, information sharing, recording clinician findings, thoughts, and actions, and storage of an accurate and complete copy of a patient's health record) required to help clinicians (e.g., physicians, nurses, respiratory therapists, nutritionists, etc.) practice medicine.

- Accessibility-centered design
- Accounting of disclosures
- Active order
- Active problem
- Activities of daily living (ADLs)
- Admission Discharge Transfer (ADT)
- Advance Health Care Directive
- After Visit Summary (AVS)
- Amendments
- Application access—all data request
- Archive
- Assessment
- Audit report(s)
- Auditable events and tamper-resistance
- Automated measure calculation
- Automated numerator recording
- Automatic access time-out
- Baseline rate, population
- Bed Master File (BED)
- Best Practice Alert (BPA)
- Break The Glass (BTG)
- Cancelled order
- Chief Complaint (CC)
- Clinical information reconciliation and incorporation
- Clinical practice guidelines
- Clinical quality measures (CQMs)—record and export
- Common Clinical Data Set summary record—create and receive
- Contact information
- Cosign
- Coverage list
- Data export
- Data segmentation for privacy
- Date of birth (DOB)
- Date of death (DOD)
- Date/Time stamp

Demographics
Dependent
Dictation
Differential diagnosis
Direct Project
Discharge summary
Discontinued (DC) order
Do Not Resuscitate (DNR) order
Dose
Drug-formulary and preferred drug list checks
Edge Protocol
Electronic Prescribing (eRx)
Electronic Reportable Lab
Electronic signature (eSignature)
Emergency access
Encounter-based record
End-user device encryption
Episode-based record
Estimated Date of Confinement (EDC)
Family health history
Filled prescription
Frequency of administration
Hand-off
Health Risk Assessment (HRA)
History (hx)
History of Present Illness (HPI)
Implantable device list
Laboratory information system (LIS)
Medical history for all children
Medication allergy list
Medication history
Medication list
Medication route
No Known Allergies (nka)
Objective
Order catalog
Order Entry (OE)
Ordering provider
Parts of order
Past Medical History
Patient health information capture
Patient-specific education resources
Pending order
Perscription
Physician Orders for Life-Sustaining Treatment (POLST)

Plan
Problem list
Problem-oriented medical record (POMR)
Profile
Psychiatric history
Quality system management
Radiology Information System (RIS)
Reason for referral
Referral
Resolved problem
Results reporting
Review of Systems (ROS)
Safety-enhanced design
Secure messaging
Sign & Hold (S&H)
Signature
Sign-out
Smoking history
Smoking status
Social history
Social, psychological, and behavioral data
Stop date
Subjective
Subjective, Objective, Assessment, Plan (SOAP) note
Surgical history
Test name
Transmission to cancer registries
Transmission to immunization registries
Transmission to public health agencies—electronic case reporting
Trusted connection
Vendor system

Evaluation

A systematic set of methods for making a judgment or assessment of a subject's merit, amount, worth, number, value, or significance. These judgments are made using criteria governed by a set of standards. Formative evaluations can be used to assess an intervention, initiative, person, project, program, or even an entire organization, and help with decision-making designed to make something better. Summative evaluations can be used to ascertain the degree of achievement or value in regard to the aim and objectives and results of any such action or intervention that has been completed. The primary purpose of evaluation, in addition to gaining insight into prior or existing initiatives, is to enable reflection and assist in the identification of future decisions or change.

- Cost-benefit analysis
- Cost effectiveness threshold
- Formative assessment
- Formative evaluation
- Goal-free approach
- Internal validation
- Marginal cost-effectiveness ratio
- Objectivist
- Process measure
- Quasilegal approach
- Responsive-illuminative approach
- Staged evaluation
- Subjectivist
- Summative assessment
- User profiling
- Validation
- Web analytics

Field of Study

A branch of knowledge that is taught and researched as part of higher education. A student or scholar's field of study, or academic discipline, is commonly defined and recognized by university faculties, learned societies, and the academic journals that publish research in that particular scientific area. In general, the specific knowledge that is included in any specific academic discipline is open to debate and commonly, multiple fields of study cover the same knowledge.

- Anthropology
- Anthropometry
- Artificial intelligence (AI)
- Basic research
- Basic science
- Behavioral economics
- Behaviorism
- Bibliometrics
- Big data
- Bioethics
- Bioinformatics
- Biomedical computing
- Biomedical engineering
- Biomedical informatics
- Biostatistics
- Calculus
- Causal modeling
- Clinical informatics
- Clinical research
- Clinical research informatics
- Cognitive science
- Cognitive work analysis
- Comparative effectiveness research (CER)
- Complementary and alternative medicine (CAM)
- Complexity science
- Computational linguistics
- Computational intelligence
- Computer programming
- Computer science (CS)
- Computer supported cooperative work (CSCW)
- Computer vision (CV)
- Computer-aided instruction (CAI)
- Computer-based education
- Consumer health informatics

Cybernetics
Data science
Data visualization
Database design and administration
Decision analysis
Decision science
Decision support
Dental informatics
Descriptive statistics
Distributed cognition
eHealth
Epidemiology
Ergonomics
Ethnography
Evidence-based medicine (EBM)
Experimental science
Genomics
Health informatics
Health information management (HIM)
Health information technology (HIT)
Health policy
Health services research
Health technology assessment (HTA)
Human–computer interaction (HCI)
Human factors
Imaging informatics
Implementation science
Industrial engineering (IE)
Inferential statistics
Informatics
Information and communications technology (ICT)
Information science
Interventional radiology
Lexicography
Linear systems
Machine learning
Medical anthropology
Medical computer science
Medical computing
Medical decision making
Medical informatics
Medical information science
Medical management
Medical technology
Metrology

Mobile health (mHealth)
Morphology
Morphometrics
Nanotechnology
Neural computing
Neural informatics
Nonlinear systems
Nosology
Nuclear medicine imaging
Numerical analysis
Nursing informatics
Operations research
Outcomes research
Pathophysiology
Persuasive technology
Population health
Precision medicine
Predicate calculus
Predictive modeling
Program evaluation
Public health
Public health informatics
Recommender systems
Scientific writing
Sociotechnical systems
Spatiotemporal analytics
Structural informatics
Technology assessment
Teleconsultation
Teledermatology
Telehealth
Telemedicine
Telepathology
Teleradiology
Telerobotics
Topology
Translational bioinformatics
Ultrasound imaging
Vectorcardiography
Virtual reality

Genetics

A biological field concerned with genes, heredity, and variation in living organisms. It focuses mainly on the study of the subcellular properties (i.e., molecular structures, functions of genes, and gene behavior) of cells or organisms that enable the transfer, or in some cases the inability to transfer, various traits from parents to their offspring. This transfer allows for the propagation of certain anatomical and physiological characteristics from one generation to the next.

Allele

Alternative splicing product

Base pair

Biomarker

Candidate gene study

Chromosome

Complementary DNA

Deoxyribonucleic acid (DNA)

DNA sequencing

Drive

Enzyme

Epigenetics

Fitness landscape

Functional genomics

Gene

Gene prediction

Gene product

Gene therapy

Genome

Genome level characters

Genome wide association study (GWAS)

Genotype

Horizontal gene transfer

Human Genome Project (HGP)

Hybridization

Infectome

Ligand

Messenger RNA

Microbiome

Mouse model

Mutation

Next-generation sequencing

Northern blot

Oligonucleotide

Open reading frame
Orthologous
Phage
Pharmacogenetics
Pharmacogenomics
Phenotype
Polymerase chain reaction (PCR)
Polymorphism
Proband
Protein sequence database
Proteomics
Reading frame
Ribonucleic acid (RNA)
Sequence alignment
Sequence information
Single nucleotide polymorphism (SNP)
Southern blot
Structural alignment
Systematic classification of proteins
Transcription factor
Universal genetic code
Variants
Whole genome shotgun sequencing

Government Funding

Any financial support provided by a local, state, or federal government organization often used to fund various types of scientific research. The funding is often determined through a competitive process, in which potential projects are evaluated (often by peers) and only the most promising receive funding.

Affordable Care Act (ACA)

Alcohol, Drug Abuse, and Mental Health Services Block Grant

American Recovery and Reinvestment Act of 2009 (ARRA)

Cancer Biomedical Informatics Grid (caBIG)

Career Development Award (K Award)

Children's Health Insurance Program Reauthorization Act of 2009

Clinical Translational Science Awards (CTSA)

Early and Periodic Screening, Diagnosis, and Treatment Program (EPSDT)

Health Manpower Shortage Area (HMSA)

Home and Community-Based Waivers

Integrated Advanced Information Management Systems (IAIMS)

Medicaid (Title XIX)

Notice of Award (NOA)

Notice of Grant Award (NGA)

Principal Investigator (PI)

Program of All-Inclusive Care for the Elderly (PACE)

Request for Applications (RFA)

Social Security

Social Services Block Grant (SSBG) Services

State Medicaid Health Information Technology Plan

Supplemental Security Income (SSI)

Veterans' Disability Pension Program

Government Organization

A permanent or semipermanent organization that forms a part of the government's bureaucracy. Individual organizations are often responsible for the oversight and administration of specific government functions. A government organization may be established by national, state, or local legislative or executive branches of government. The autonomy, independence, and accountability of government organizations vary widely.

Advisory Committee for Immunization Practice (ACIP)

Agency

Agency for Healthcare Research and Quality (AHRQ)

Area Agency on Aging (AAA)

Australian Health Information Council (AHIC)

Australian Health Ministers' Advisory Council (AHMAC)

Center for Disease Control and Prevention (CDC)

Centers for Medicare and Medicaid Services (CMS)

Congressional Budget Office (CBO)

Consolidated Health Informatics (CHI)

Department of Defense (DoD)

Department of Health (DoH)

Department of Health and Human Services (HHS or DHHS)

Drug Enforcement Administration (DEA)

Equal Employment Opportunity Commission (EEOC)

European Union (EU)

Federal Advisory Committee Act (FACA)

Federal Bureau of Investigation (FBI)

Federal Communications Commission (FCC)

Federal Trade Commission (FTC)

Food and Drug Administration (FDA)

General Services Administration (GSA)

Government Accountability Office (GAO)

Health Care Financing Administration (HCFA)

Health Resources and Services Administration (HRSA)

Health Systems Agency (HSA)

Home Health Agency (HHA)

Indian Health Service (HIS)

Inspector General (IG)

Maternal and Child Health Block Grant (Programs for Children with Special Needs)

Military Health System (MHS)

Ministry of Health (MOH)

National Aeronautic and Space Administration (NASA)

National Cancer Institute (NCI)

National Center for Biotechnical Information (NCBI)

National Center for Health Services and Research (NCHSR)
National Center for Health Statistics (NCHS)
National Committee for Quality Health Care (NCQHC)
National Committee on Vital and Health Statistics (NCVHS)
National Computer Security Association (NCSA)
National Guideline Clearinghouse (NGC)
National Health Service (UK) (NHS)
National Heart, Lung, and Blood Institute (NHLBI)
National Human Genome Research Institute (NHGRI)
National Institute for Health and Clinical Excellence (NICE)
National Institute of Allergies and Infectious Diseases (NIAID)
National Institute of Child Health and Human Development
National Institute of Dental Research (NIDR)
National Institute of Diabetes, Digestive, and Kidney Diseases (NIDDKD)
National Institute of Mental Health (NIMH)
National Institute of Occupational Safety and Health (NIOSH)
National Institute on Aging (NIA)
National Institute on Drug Abuse (NIDA)
National Institutes of Health (NIH)
National Library of Medicine (NLM)
National Program for Information Technology (UK) (NPfIT)
National Science Foundation (NSF)
National Security Agency (NSA)
National Transportation Safety Board (NTSB)
Occupational Safety and Health Administration (OSHA)
Office of Civil Rights (OCR)
Office of Inspector General (OIG)
Office of Management and Budget (USA) (OMB)
Office of the National Coordinator for Health Information Technology (ONC)
Patient Centered Outcomes Research Institute (PCORI)
President's Information Technology Advisory Committee (PITAC)
Public Health Agency
Public Health Department
Public Health Services (PHS)
Regional Health Information Network (RHIN)
Regional Health Information Organization (RHIO)
Veterans Health Administration (VHA)
Veterans' Health Services Programs
Vital Statistics
World Health Organization (WHO)

Health Insurance

A financial arrangement in which a company or government agency provides a future guarantee of compensation for specified medical expenses resulting from injury, illness, or death in return for payment of an upfront premium. The insurance companies or government agencies determine the upfront premium by estimating the overall medical costs associated with the individuals in the group that it is insuring.

- Adjusted Average Per Capita Cost (AAPCC)
- Blue Cross/Blue Shield (BC/BS)
- Braided Funding
- Captive
- Carrier
- Catastrophic Health Insurance
- Child Health Insurance Program (CHIP)
- Civilian Health and Medical Program of the Uniformed Services (CHAMPUS)
- Civilian Health and Medical Program of the Veterans Administration (CHAMPVA)
- Competitive Medical Plan (CMP)
- Consumer
- Coverage
- Coverage Basis
- Coverage Decision
- Covered Services
- Current Annual Premium
- Current Claimant
- Custodial Care
- Defined Benefit
- Defined Contribution
- Drug Claims Processing
- Drug Risk-Sharing Arrangements
- Dual Eligible
- Exclusive Provider Arrangement (EPA)
- Expenditure Target (ET)
- Federal Employees Health Benefits Program (FEHBP)
- Federal Poverty Level (FPL)
- Flexible Savings Account (FSA)
- Formulary
- Future Purchase Option (FPO)
- General Liability Claims/Losses
- Guaranteed Renewal
- Health Insurance Purchasing Cooperative (HIPC)
- Health Plan

Health Risk Factors
Health Status
High-Risk Pool
Home Health Care Benefit Amount
Indemnity insurance
Inflation Protection Duration: Life of Policy/Certificate
Institutional Long-Term Care (ILTC)
Joint and Several Liability
Joint Underwriting Association
Lifetime Maximum Structure (LMS)
Long-Term Care Insurance (LTCI)
Maintenance Assistance Status (MAS)
Major medical insurance
Medical Necessity
Medicare Advantage
Medicare Supplement Insurance (MedSupp)
Medigap
Nursing Home Liability Insurance
Offshore Captives
Partnership Status
Policy Benefit Type
Policy Number
Preadmission Certification
Preexisting Condition
Preferred Provider Arrangement (PPA)
Premium
Private health insurance
Professional Liability Claims/Losses
Psychiatric Rehabilitation Option
Qualifying Condition
Regulated Insurance Carrier
Reimbursement
Reinsurance
Remaining Lifetime Benefits
Rent-A-Captive
Restricted-Benefit Enrollee
Risk Retention Group (RRG)
Self-Insured plans
Service Plan
Social Security Disability Insurance (SSDI)
Spend-Down
Spousal Impoverishment
Underinsured
Underwriting
Veterans' Disability Compensation Program
Workers' Compensation Program

Healthcare Finance

A branch of the field of finance that describes the processes by which patients and healthcare beneficiaries pay for medical expenses. When thinking about healthcare finance, one must consider at least three questions: How is the money raised to pay for the healthcare services? How are funds from groups of patients pooled? And, how are healthcare services paid for?

Blended Funding

Capital

Capital Expenditure Review

Capitalization

Capitation Rate

Carve Out

Catchment Area

Certificate of Need (CON)

Community Rating

Cost Containment

Cost Minimization Analysis (CMA)

Cost Neutrality

Cost of Illness Analysis (COI)

Cost of Living Adjustment/Allowance (COLA)

Cost Sharing

Cost Shifting

Cost Utility Analysis

Cost-Based Reimbursement

Cost-Benefit Analysis

Cost-Shifting

Diagnostic-related Group (DRG)

Guarantor

Insurance guarantor

Medicare (Title XVIII)

Self-pay

Uncompensated Care

Uniform billing form (UB-92)

Workman's compensation

Hospital Department

The set of organizational components commonly found in hospitals. Hospital departments provide specific diagnostic or therapeutic services to patients throughout the hospital.

- Acute Care
- Ancillary Services
- Bone Marrow Transplant (BMT) Unit
- Burn unit
- Cardiac Intensive Care Unit (CICU)
- Cardiovascular Intensive Care Unit (CVICU)
- Care/Case Management
- Critical care
- Critical Care Unit (CCU)
- Ear, Nose, Throat (ENT)
- Emergency Department (ED)
- Emergency Room (ER)
- Escort Services
- General surgery
- Graduate Medical Education (GME)
- Head, Eyes, Ears, Nose, (Mouth), and Throat (HEENT)
- Health Education
- Health Promotion
- Hospice Care
- Information Systems (IS)
- Information Technology (IT)
- Inpatient
- Intensive Care Unit (ICU)
- Intermediate Care
- Labor and Delivery (L&D)
- Laboratory (LAB)
- Long-term care Ombudsman
- Medical Intensive Care Unit (MICU)
- Mental Health Services
- Neonatal Intensive Care Unit (NICU)
- Network Operation Center (NOC)
- Nursing station
- Occupational Health Services
- Occupational Therapy (OT)
- Ombudsman
- Operating Room (OR)
- Pediatric Intensive Care Unit (PICU)
- Perinatal
- Pharmaceutical and Therapeutic (P&T) committee
- Physical Therapy (PT)

Postacute Care (PAC)
Postanesthesia Care Unit (PACU)
Pulmonary Intensive Care Unit (PICU)
Rapid Response Team (RRT)
Rehabilitation
Risk management (RM)
Skilled Nursing Care
Special Care Units
Subacute Care
Surgical Intensive Care Unit (SICU)
Tertiary care
Transportation Services
Trauma line

Human-Computer Interaction

A subfield of computer science that focuses on the design and use of computing technology that provides the interface between computing technology and the people who use it. It relies heavily on the more mature fields of cognitive science and human factors engineering. An important goal of the field is to facilitate a “dialog” between humans and computers, which is similar to that of human-to-human interactions.

Abbreviations to avoid

Affordance

Augmented reality

Autocompletion

Bitmap display

Button

Cascading style sheets

Charting by exception

Chronological order

Cognitive load

Contrast

Copy and paste

Cursor

Dashboard

Data overload

Direct manipulation

Drop-down control

Error recovery

Feedback

Flowsheet

Foreground/background color combinations to avoid

Graphic editor

Graphical models

Graphical user interface (GUI)

Growth charts

Haptic feedback

Human-readable content

Hypertext

Icon

Information overload

Interface consistency

Joystick

Keyboard

Keystroke Level Modeling (KLM)

Learnability

Light pen

Make the right thing to do, the easiest thing to do
Mandatory field
Memorability
Mental models
Menu
Metaphor
Metaphor graphics
Mouse (pointing device)
Multimedia
Passive
Perception
Postscript
Presentation
Prospective memory
Radio button
Range check
Raster image
Readability
Red, green, blue pixels
Relevant feedback
Reverse chronological order
Right information to right person at right time, so they can
make right decision
Screenshot
Shared mental model
Structured data
Tab control
Tab metaphor
Tactile feedback
Tiling
Touchscreen
Trackball
Usability
Usability engineering
Use error
User experience (UX)
User interaction model
User profile
User-centered design (UCD)
Vector image
View
Visibility
Visualization
What you see is what you get (WYSIWYG)
White board

Identity Management

A broad administrative area or discipline that deals with identifying individuals in a system (such as a hospital, a healthcare delivery network, or an entire community), protecting that identity, and controlling their access to resources within that system by associating specific user rights and restrictions with the user's established identity. The goal of identity management is to ensure that the right individuals are able to access the right resources at the right times and for the right reasons.

- Access and identity management

- Access control

- Accessibility

- Accountability

- Attestation

- Audit trail

- Authenticate

- Authentication

- Authenticity

- Authorization

- Biometric authentication

- Biometric identification

- Biometric identifier

- Comingled records

- Confidentiality

- Confidentiality, integrity, availability (CIA)

- Data confidentiality

- Deidentification

- Deidentified data

- Duplicate records

- Face (facial) recognition

- Finger print recognition

- Handwriting recognition

- Inaccessibility

- Internet certificate

- k-Anonymity

- Key

- Key resource

- Nonrepudiation

- Palm-print recognition

- Password

- Password change policy

- Personal identification number (PIN)

- Personal identifying information

Role-based security

Role-limited access

Social Security Number (SSN)

Three factor authentication—something you know, something
you have, something you are

Two-factor authentication

Imaging

The process of creating a visual representation or reproduction of an object's internal or external structure. It can be used to allow clinicians to look at the inside or outside of the human body for clues about a medical condition. A variety of machines, modalities, and techniques can create visual representations of the internal and external structures and activities of the body.

- Back projection
- Charge-coupled device (CCD) camera
- Chest photofluorography
- Chest X-ray (CXR)
- Color resolution
- Computed radiography
- Computed tomography (CT)
- Computerized axial tomography (CAT)
- Contrast radiography
- Contrast resolution
- Contrast-enhanced ultrasound
- Convolution
- Deformable model
- Diffuse optical imaging
- Diffusion tensor imaging
- Diffusion-weighted imaging
- Digital image
- Digital image acquisition
- Digital radiography
- Digital subtraction angiography
- Dosimetry
- Echocardiography
- Edge detection
- Electrical impedance tomography
- Feature classification
- Feature detection
- Feature extraction
- Filmless imaging
- Fluoroscopy
- Functional magnetic resonance imaging (fMRI)
- Functional mapping
- Global processing
- Gray scale
- Gynecologic ultrasonography
- Histogram equalization
- Image database

Image enhancement
Image generation
Image management
Image manipulation
Image processing
Imaging modality
Intravascular ultrasound
Ionizing radiation
Light
Magnetic resonance imaging (MRI)
Molecular imaging
Multimodal image fusion
Neuroimaging
Nonionizing radiation
Nuclear magnetic resonance (NMR) imaging
Nuclear magnetic resonance (NMR) spectroscopy
Obstetric ultrasonography
Phantom
Positron emission tomography (PET)
Projection
Qualitative arrangement
Radioactive isotope
Region detection technique
Resolution
Shadow graph
Single photon emission computed tomography (SPECT)
Spatial resolution
Surface based warping
Surface rendering
Template Atlas
Temporal resolution
Temporal subtraction
Three-dimensional reconstruction and visualization
Three-dimensional structure information
Ultrasound
Unsharp masking
Virtual colonoscopy
Volume rendering
Volume-based warping
Voxel
X-ray
X-ray crystallography

Information Resource

An element of computing infrastructure (e.g., equipment, personnel) that provides users with the data, information, or knowledge required to help them do their job. Specific information resources may be accessible via the Internet or stored locally on servers.

- Cochrane Database
- Cumulative Index to Nursing and Allied Health Literature (CINAHL)
- Digital library
- E-book
- Electronic textbook (eBook)
- EMBASE
- Evidence-based medicine database
- Frequently asked questions (FAQ)
- Full text database
- Genomics database
- [Guidelines.gov](#) clearinghouse
- Hospital Consumer Assessment Healthcare Providers and Systems (HCAHPS)
- Impact factor
- Index Medicus
- Information resources
- Internet archive
- Medical literature analysis and retrieval system (MEDLARS)
- Medicare Provider Analysis and Review (MEDPAR) File
- Medicare Provider Inventory (MPI)
- Merck Medicus
- Multimedia content
- Multiparameter Intelligent Monitoring in Intensive Care (MIMIC)
- National Death Index (NDI)
- National Digital Information Infrastructure Preservation Program (NDIIPP)
- National Health Interview Survey (NHIS)
- Original content
- Physician's Desk Reference (PDR)
- Population-based atlas
- Primary knowledge-based information
- Primary literature
- Science citation index
- Social security death index
- State Medicaid databases

Surveillance, Epidemiology, and End Results (SEER) database

UMLS semantic network

Up-to-date

Value Set Authority Center

Visible human project

Information Retrieval

The process of obtaining information resources (e.g., articles, books, websites) relevant to an information need (i.e., a query) from a collection of information resources. Searches can be based on full-text information resources or other content-based indexing techniques. Often a query does not uniquely identify a single resource from the collection of resources searched, in which case multiple resources are returned and ranked according to different degrees of relevancy (e.g., closeness of match, time of creation, or proximity to the user). This ranking of search results is a key difference of information retrieval searching compared to precise database searching.

- All-Payer Claims Database (APCD)

- Automated indexing

- Bibliographic content

- Bibliographic database

- Boolean search

- Browsing

- Check tag

- Chronology

- Citation database

- Cooccurrence of terms

- Document frequency

- Emtree

- Entrez

- Entry term

- Exact match searching

- Excerpta Medica

- Exploded term

- Field qualification

- Filter (for data/information)

- Full text

- Google

- Granularity

- Index

- Index attribute

- Index item

- Indexed Sequential Access Method (ISAM)

- Indexing

- Information

- Information need

- Information seeking behavior

- Inverse document frequency (IDF)

Inverted index
Keyword
Lexical-statistical retrieval
Link-based indexing
Manual indexing
Mesh subheading
Metacontent
Metadata harvester
Natural language query
Online bibliographic searching
Page rank algorithm
Page rank indexing
Partial match searching
Precision
Proximity searching
Publication type
Query
Query and retrieval
Ranking
Recall
Recency ranking
Reference
Relative recall
Relevance ranking
Retrieval
Search intermediary
Search optimization
Set-based searching
Start with versus contains queries
Subheading
Subject heading
Synoptic content
Term frequency
Term frequency—inverse document frequency (TF-IDF)
Term weighting
Text retrieval conference (TREC)
Text word searching
Vector space model
Weights
Wildcard character

Journal

A serious, scholarly, peer-reviewed publication that deals with a particular subject or professional activity. Journals may be available in either paper or electronic formats.

Applied Clinical Informatics (ACI)

Artificial Intelligence in Medicine (AIM)

BMC Medical Informatics and Decision Making

Computers in Biology and Medicine

International Journal of Medical Informatics (IJMI)

Journal of Biomedical Informatics (JBI)

Journal of Clinical Monitoring and Computing

Journal of Medical Internet Research (JMIR)

Journal of the American Medical Association (JAMA)

Journal of the American Medical Informatics Association (JAMIA)

Medical Decision Making

Methods of Information in Medicine (MIM)

Morbidity and Mortality Weekly Report (MMWR)

New England Journal of Medicine (NEJM)

Law

The system of rules that our society recognizes as regulating the actions of its members. Failure to follow these laws may result in the imposition of penalties. Many of the “laws” consist of thousand page-plus documents that describe in excruciating detail what is and what is not allowed to occur. Finally, many of these laws have a significant impact on the way health information technology is or is not used in the clinical setting.

508 compliance

Age Discrimination in Employment Act (ADEA)

Americans with Disabilities Act (ADA)

Antitrust

Any Willing Provider Laws

Arbitration Agreements

Authorized Testing and Certification Bodies (ATCBs)

Belmont Report

Beneficence

Business Associate (BA)

Business Associate Agreement (BAA)

Certified Electronic Health Record Technology (CEHRT)

Clinical Laboratory Improvements Amendment (CLIA)

Code of Federal Regulations (CFR)

Collateral Damages

Conditions of Participation (COP)

Contracting

Copyright

Copyright

Covered entity

Data stewardship

Data Use Agreement (DUA)

Electronic Protected Health Information (ePHI)

Eligible Hospitals (EH)

Eligible Professionals (EPs)

Emancipated minor

Emergency Medical Treatment and Active Labor Act (EMTALA)

Employee Retirement Income Security Act (ERISA)

End User License Agreement (EULA)

Enterprise Liability

Equal Employment Opportunity (EEO)

Estimated Liability Costs

Fair Information Practice Principles (FIPP)

Family and Medical Leave Act (FMLA)

First do no harm

Freedom of Information Act (FOIA)
Full disclosure
Generalizable knowledge
Guardian
Health Information Technology for Economic and Clinical Health (HITECH) Act
Health Insurance Flexibility and Accountability (HIFA)
Health Insurance Portability and Accountability Act (HIPAA), 1996
Hearsay evidence
Hill–Burton Act
Hold harmless clause
Institutional Review Board (IRB)
Instructional Health Care Directive
Intellectual property (IP)
Justice
Legal issues
Liability
License/Licensure
Licensing
Malpractice
Mandate
Meaningful Use (MU)
Medical power of attorney
Medicare Access and CHIP Reauthorization Act of 2015
Memorandum of Understanding (MOU)
Minor
Moral hazard
Negligence law
Non-Disclosure Agreement (NDA)
Noneconomic Damages
Notifiable disease
Older Americans Act (OAA)
Omnibus Budget Reconciliation Act (OBRA) of 1993
Open access
Open policy
Open source
Patents
Patient Protection and Affordable Care Act (ACA)
Patient Self-Determination Act (PSDA)
Peer review
Plagiarism
Power of Attorney (POA)
Professional patient relationship
Professional review approach

Public Health Service Act
Punitive Damages
Redact
Release of Information (ROI)
Settlement
Software contract
Strict product liability
Subpoena
Tort Reform
Treatment, Payment, Operations (TPO)
View, Download, and Transmit

Logic

The systematic use of symbolic and mathematical techniques and principles underlying the arrangements of elements in a computer, which are used to determine the forms of valid deductive argument with a goal of performing a specific task.

- AND (Boolean)
- Boolean logic
- Complement (Boolean)
- If-then-else
- Mutually exclusive
- NAND (Boolean)
- NOT (Boolean)
- Not OR (NOR) Boolean logic
- OR (Boolean)
- Reify
- Truth tables
- Venn diagram
- XOR Exclusive OR (Boolean)

Malware

A relatively new term that is short for “malicious software.” Rather than being useful to help solve a problem, this software has a malicious intent to disrupt, damage, steal sensitive information, display unwanted advertising, or disable individual computers or entire computing systems. Malware is not used to describe software that causes unintentional harm due to some error or deficiency in its design, development, configuration, or use.

- Adware
- Antispyware software
- Antivirus software
- Bit torrent
- Macro virus
- Malicious applet
- Malicious code
- Malicious logic
- Malware signature
- Phishing
- Ransomware
- Scareware
- Spyware
- Trojan horse
- Virus (computer code)
- Worm
- Zombie

Management

The features, functions, and tools required to organize and coordinate the activities of healthcare-related activities within the healthcare system to achieve defined objectives. Management is also concerned with creating the policies and procedures required to organize, plan, control, and direct an organization's resources, including physical, financial, and human to achieve the objectives of the organization (i.e., provide high-quality patient care to the most patients at the least cost).

Accounts payable (AP)

Accounts receivable (AR)

Accreditation

Adult care home

Adult day care

Assessing clinical information system needs

Behavior change

Boiler plate text

Bring your own device (BYOD)

Capital budget

Clinical Decision Support (CDS) Oversight committee

Clinical program

Collaboration

Collaborative decision-making

Collaborative work

Comprehensive Primary Care Initiative

Conflict management

Consensus group process

Consumer price index (CPI)

Cooperative

Credentialing

Data governance

Decision support system (DSS)

Doing Business As (DBA)

Drug Utilization Review (DUR)

Dual reporting structure

Email etiquette

Employee Identification Number (EIN)

Employer Identification Number (EIN)

EMR Oversight committee

Environmental scan

Federally Qualified Health Center (FQHC)

Financial management

Fiscal year (FY)

Fixed cost

Formative decision
Full-time equivalent (FTE)
Global budgeting
Gross domestic product (GDP)
Gross national product (GNP)
Group purchasing organization (GPO)
Health planning
Health Service Area
Horizontal integration
Hospital administration
Incremental cost–benefit ratio
Indefinite Duration, Indefinite Quantity (IDIQ)
Individual practice association (IPA)
Information technology strategy
Initial public offering (IPO)
Inventory
Just-in-time learning
Kaizen
Learning health system
Letter of intent (LOI)
Long run cost
Management by objectives (MBO)
Matrix management
Medical Executive Committee (MEC)
Medical Operations Committee (MOC)
Medical record committee
Medical Review Board (MRB)
Negotiation
Net present value (NPV)
No margin, no mission
Nominal group process
Occupancy rate
On-the-job training (OJT)
Operating budget
Opportunity cost
Opt-in
Opt-out
Organizational behavior
Organizational change
Organizational culture
Organizational mission
Organizational objectives
Organizational tactics
Organizational vision
Participatory decision-making

Patient engagement strategy
Patient safety strategy
Pay by transaction versus pay by user
Performance management
Physician Incentive Plan (PIP)
Population management
Present value
Process improvement
Production
Production room
Productivity cost
Productivity Improvement Program (PIP)
Profit and loss (P&L)
Project management
Project milestones
Prospective payment system
Purchasing collaborative
Reengineering health care
Regional Extension Center (REC)
Request for information (RFI)
Request for proposal (RFP)
Resource allocation
Resources
Responsibility versus accountability
Return on equity (ROE)
Return on investment (ROI)
Risk Management Program
Scope creep
Service Level Agreement (SLA)
Short run cost
Social influence theory
Social media strategy
Software Oversight Committee (SOC)
System development life cycle
System requirements
Time trade-off
Utilization review
Value-added reseller (VAR)
Value-based purchasing (VBP)
Volume performance standard
Work to limit of license
Workflow reengineering
Zero-base budgeting (ZBB)

Mathematics

An abstract field of science concerned with the study of topics such as number, quantity, structure, patterns, space, and change of physical objects and abstract concepts. Those who study mathematics (mathematicians) look for patterns and attempt to use them to formulate conjectures. They then attempt to resolve the truth or falsehood of the conjectures by mathematical proof. When mathematicians create mathematical structures that are good models of real phenomena, then mathematical reasoning can provide insight or predictions about nature or the future.

2.71828 (e)

3.14159 (pi)

1024 (2^{10})

Acute

Arc

Arithmetic moving average (ARIMA)

Base-10

Base-2

Billion

Binary

Binary coded decimal (BCD)

Binary to decimal conversion

Boolean operators

Cardinal numbers

Coefficient

Complex numbers

Constant

Cosign vector calculation

Cosine function

Cross product

Date

Default value

Denominator

Denormalized numbers

Density–amplitude domain

Derivative

Differential

Differential equation

Differentiate

Digital

Dimension

Discrete

Discriminant

Dot product
Eigenvectors
Entropy
Exponent
Exponential constant
Exponential function
Factor
Factorial
Floating-point arithmetic
Fourier analysis
Frequency components
Frequency response
Function
Fuzzy logic
Global extrema
Gradient
Gradient descent
Halting problem
Hash value
Hyperbolic
Infinitesimal
Infinity
Integral
Interpolate
Intersection
Inverse
Inverse function
Kilobyte
Limit
Linear
Linear algebra
Local extrema
Logarithm
Matrix
Matrix inversion
Maximum
Multiplication
Natural logarithm
Nonlinearity
Not a number (NaN)
Numerator
Octal
Operator
Optimization
Order of magnitude

Order of operations
Ordinal numbers
Partial derivative
Percentage
Perimeter
Power
Power law
Proof
Proportional
Quadratic equation
Quadratic formula
Quotient
Ratio
Reciprocal
Regression
Residual
Root
Root mean square
Satisfiability problem
Sign
Sine function
Smoothing
Space constant
Sum of squares
Summation
Tangent
Time constant
Travelling salesman problem
Union
Vector differentiation
Wavelet transformation

Measurement

The assignment of a number to some characteristic of an object or event (e.g., size, length, amount, time, temperature) so that it can be compared with other objects or events. The scope and application of a measurement is dependent on the context and discipline. In the natural sciences and engineering, measurements do not apply to nominal properties (i.e., properties with no magnitude) of objects or events. However, in other fields such as statistics as well as the social and behavioral sciences, measurements can have different levels, including nominal, ordinal, interval, and ratio scales.

Accuracy of measurement

Acoustic

Acuity

Analog

Analytical

Angstrom

Attenuation

Calibration

Calorie

Distortion

Drift

Dye dilution indicator

Electromyogram

False negative result

False positive result

Fractional change

Gain

Gold standard test

Index test

Indicator

Intermittant monitoring

Invasive monitoring

Key performance indicator (KPI)

Off scale

Offset

Order entry rate

Patient satisfaction

Point of service (POS) testing

Pressure

Pressure transducer

Quantity

Real-time data acquisition

Recording

Refractivity index
Resolution of measurement
Response time
Sampling rate
Scalar
Signal
Signal artifacts
Spectrum bias
Static
Temporal
Transducer
Ultrasonography
Unobtrusive measures
Valid
Visual analog scale
Within Defined Limits (WDL)

Measurement Unit

A term used to describe a definite magnitude of a quantity, defined and adopted by convention or by law. In general, a country or organization adopts a specific set of measurement units which are used as a standard for measurement of the same quantity everywhere. There are several different overarching measurement systems including the “English” system, which is in use in the United States, and the SI (Système International d’Unités), which is a globally agreed upon system of units, with seven base units. These base units can be modified by various prefixes (e.g., milli, kilo, mega, etc.). Using the SI system, any value of a specific quantity can be expressed as a simple multiple of the unit of measurement. For most scientific purposes, the SI measurement units are used regardless of the country in which one resides.

Ampere (A)
Atto (a)
Candela (cd)
Celsius (C)
Centigrade (C)
Cubic centimeters (cc)
Decibel (Db)
Exa (E)
Fahrenheit (F)
Femto (f)
Giga (G)
Gram (g)
Hertz (Hz)
Hour (H)
Inch (In)
Kelvin (K)
Kilo (k)
Kilogram (kg)
Mega (M)
Meter (m)
Metric
Micro (μ)
Microgram (mcg)
Micron
Milli (m)
Milliequivalent (meq)
Milligram (mg)
Milliliter (mL)
Millimeter (mm)
Mole (mol)

Nano (n)
Newton
Parts per million (PPM)
Peta (P)
Pico (p)
Postmeridiem (PM)
Radian
Revolutions per minute (RPM)
Second (s)
Tera (T)
Tesla
Units
Yocto (y)
Yotta (Y)
Zepto (z)
Zetta (Z)

Medical Billing

The process by which medical coders (either automated or manually) translate clinical documentation of a healthcare service, which is often described in narrative or free text, into a set of diagnosis, procedure, or medication codes, which can be submitted as a claim to an insurance company or directly to the patient. Often, the healthcare provider must follow-up on the claim with the insurance company to ensure it is paid.

Administrative services only (ASO)

Admitted Carriers

All Patient Diagnosis-Related Group (APDRG)

Allowable Costs

All-Payer System

Alternative Market

Ambulatory Payment Classification (APC)

Appropriateness

Assisted Living Facility (ALF) Benefit Amount

Average Wholesale Price (AWP) of Prescription Drugs

Avoidable Hospital Conditions

Bad Debts

Balance Billing

Basis of Eligibility (BOE)

Beneficiary

Benefit Start Date of Current Claim Period

Billing Audit

Cafeteria Benefits Plan

Calendar Year

Capitated System

Capitation

Categorically Needy

Charges

Charity Care

Chart Audit

Claim Status

Coinsurance

Company Code

Contract Management System

Coordination of Benefits (COB)

Copayment

Cost center

Customary Charge

Customary, Prevailing, and Reasonable

Customer

Deductible

Diagnosis-Related Group (DRG)
Direct cost
Discounting
Disease Management Program
Durable Medical Equipment (DME)
Electronic Claim
Electronic Funds Transfer (EFT)
Employer Master File (EMP)
Employer Name
Employer Type
Evaluation and Management Codes (E&M)
Explanation of Benefits (EOB)
Federal Employer Identification Number (FEIN)
Fee for Service (FFS)
Fee Schedule
Fiduciary
Fixed fee
Foster Child
Fraud
Hospital Acquired Condition (HAC)
Indigent Care
Indirect cost
Inpatient Prospective Payment System
Level of Care (LOC)
Marginal cost
Medical Record Number (MRN)
Medical Savings Account (MSA)
Medically Indigent
Merit-Based Incentive Payment System
National Plan and Provider Enumeration System
National Provider Index (NPI)
Nonquantifiable benefits and costs
Orderable, Performable, Chargeable (OPC)
Overhead
Per capita payment
Pharmacy Benefit Managers (PBMS)
Physician Fee Schedule
Preferred Provider Insurance
Prepayment
Present on Admission (POA)
Primary Care Gatekeepers
Prospective payment
Relative Value Unit (RVU)
Resource-Based Relative Value Scale
Retrospective payment

Revenue center
Service benefit
Service bureau
Stop loss coverage
Super bill
Taxpayer Identification Number (TIN)
Universal Billing Form 92 (UB-92)
Usual customary and reasonable fee
Variable cost
Willingness to pay

Medical Device

The U.S. Food and Drug Administration (FDA) defines a medical device as an instrument, apparatus, implement, machine, contrivance, implant, in vitro reagent, or other similar or related article, including a component part, or accessory that is intended for use in the diagnosis of disease or other conditions, or in the cure, mitigation, treatment, or prevention of disease, in man or other animals, or intended to affect the structure or any function of the body of man or other animals, and which does not achieve any of its primary intended purposes through chemical action within or on the body of man or other animals and which is not dependent upon being metabolized for the achievement of any of its primary intended purposes.

Assistive devices

Automatic inflation protection type

Cannula

Cardiovascular monitor

Catheter

Clamp

Crash cart

Defibrillator

Electrocardiogram (ECG/EKG)

Heart–Lung pump

High-efficiency particulate attraction filter (HEPA)

Hoist scale

Home medical equipment

Implantable cardioverter defibrillator (ICD)

Intraortic balloon pump (IABP)

Intravenous (IV) pump

Laminar airflow hood

Left ventricular assist device (LVAD)

Ligature

Medication cart

Nasal cannula

Nasogastric tube (NG)

Patient-controlled analgesia (PCA) pump

Percutaneous endoscopic gastrostomy (PEG) tube

Peripherally inserted central catheter (PICC)

Positive end-expiratory pressure (PEEP)

Pyxis machine

Radio-frequency identification device (RFID)

Ventilator

Wheelchair (WC)

Medical Facility

A physical location where health care is provided. Medical facilities can range from small clinics and single physician offices to medium-sized urgent care centers and large hospitals with elaborate emergency rooms and trauma centers. In most places, medical facilities are regulated to some extent by a government or private entity. Such licensing by an approved regulatory agency is often required before a facility may open for business and care for patients. Medical facilities may be owned and operated as or by for-profit businesses, nonprofit organizations, and local, state, or federal governments.

Academic Medical Center (AMC)

Acute Care Unit

Ambulatory Care

Ambulatory Clinic

Ambulatory Surgical Center (ASC)

Area Health Education Center (AHEC)

Assisted Living Facility

Behavioral Health

Board and Care Home

Children's Hospital

Chronic Care

Clinic

Community Health Center (CHC)

Community Hospital

Community Long-Term Care (CLTC)

Community Mental Health Center (CMHC)

Community-Based Care/Services

Comprehensive Cancer Center

Continuing Care Retirement Community (CCRC)

Critical Access Hospital (CAH)

Emergency Care Center

Emergency Medical Services (EMS)

Emergency Shelter

Family Foster Home

Foster Care

Free clinic

General Practice

Geriatric Research, Education, and Clinical Center (GRECC)

Group Home

Group Practice

Health Facilities

Home Health

Home Health Care
Hospice
Hospital
Independent Living Facility
Intermediate Care Facility (ICF)
Intermediate Care Facility for the Mentally Retarded (ICF/MR)
Isolation room
Long-Term Care (LTC)
Medicare HMOs
Memory Care Unit
Military Treatment Facilities (MTFs)
Mobile Army Surgical Hospital (MASH)
Neighborhood Health Center
Nursing Home
Nursing Home Care
Outpatient
Private Practice
Rehabilitation Hospital
Residential Care
Secure Facility
Senior Center
Skilled Nursing Facility (SNF)
Step down unit
Tertiary Care Hospital
Transitional Care
Urgent Care Center (Clinic)
Veteran Integrated Service Networks (VISN)
Wellness Clinic

Medication

A chemical substance that is introduced (i.e., ingested, injected into a muscle or vein, applied topically to the skin, inhaled, or inserted rectally) into a patient's body. A medication is designed to treat a patient's physical or mental illness or to relieve one or more symptoms of a patient's clinical condition. It is not uncommon for medications to have unintended, adverse effects, or to interact with each other and harm patients. Often medications are referred to as drugs or pharmaceuticals.

Adrenaline
Albuterol (Proventil)
Alendronate (Fosamax)
Allopurinol (Zyloric)
Alprazolam (Xanax)
Amitriptyline (Elavil)
Amlodipine (Norvasc)
Amoxicillin (Trimox)
Amoxicillin–clavulanate (Augmentin)
Analgesia
Antibiotic (ABX)
Artificial nutrition and hydration
As desired (ad lib)
As needed (prn)
Aspirin (asa)
At bedtime (q hs)
Atenolol (Tenormin)
Atomoxetine (Strattera)
Atorvastatin (Lipitor)
Azidothymidine (AZT)
Azithromycin (Zithromax)
Azithromycin pack (Z-pack)
Bedtime (hs)
BID—twice daily
Biocompatible
Biosimilar
Bupropion (Wellbutrin)
Capsule (cap)
Celecoxib (Celebrex)
Cetirizine (Zyrtec)
Ciprofloxacin (Cipro)
Citalopram (Celexa)
Clonazepam (Klonopin)
Clonidine (Catapres)
Clopidogrel (Plavix)

Cyclobenzaprine (Flexeril)
Desloratadine (Clarinex)
Detailing
Dextroamphetamine–amphetamine (Adderall)
Dextrose in water (DW)
Diazepam (Valium)
Digoxin (Lanolin)
Diltiazem (Cardizem)
Diphtheria, Tetanus, Pertussis (DTaP) vaccine
Direct to consumer (DTC) advertising
Divalproex (Depakote)
Doxycycline (Vibramycin)
Enalapril (Vasotec)
Epinephrine
Escitalopram (Lexapro)
Esomeprazole (Nexium)
Every (q)
Every day (QD)
Every other day (QOD)
Fentanyl (Duragesic)
Fentanyl (Sublimaze)
Fexofenadine (Allegra)
Finasteride (Proscar)
Fluconazole (Dipluran)
Fluoxetine (Prozac)
Fluticasone (Flonase)
Folic acid
Form
Four-times daily (qid)
Fresh frozen plasma (FFP)
Furosemide (Lasix)
Gabapentin (Neurontin)
Gemfibrozil (Lopid)
Generic substitution
Glipizide (Glucotrol)
Glyburide (Micronase)
Haemophilus influenza type B vaccine (Hib)
Hepatitis B vaccine (HepB)
Hourly (qh)
Hydrochlorothiazide (HCTZ)
Hydrocodone–acetaminophen (Vicodin)
Ibuprofen (Advil)
Immunization vaccines
Immunoglobulin G (IgG)
Inactivated polio vaccine (IPV)

Interchangables
International units (IU)
Intravenous (IV)
Iron supplements
IV Piggyback (ivpb)
IV Push (ivp)
Lansoprazole (Prevacid)
Levofloxacin (Levaquin)
Levothyroxine, T4 (Synthroid)
Lipids
Lisinopril (Prinivil)
Lorazepam (Ativan)
Losartan (Cozaar)
Losartan–hydrochlorothiazide (Hyzaar)
Lovastatin
Magnesium sulfate (MgSO_4)
Measles, Mumps, Rubella (MMR) vaccine
Medication name
Medication substitution
Metformin (Glucophage)
Methylphenidate (Ritalin)
Methylprednisolone (Medrol)
Metoprolol
Morphine (MSO_4)
Naproxen (Naprosyn)
Narcan
Niacin (Niacor)
Nifedipine (Procardia)
Nitroglycerin (Nitrolingual)
Normal Saline (ns)
Nothing per os (NPO)
Number of doses
Olanzapine (Zyprexa)
Omeprazole (Prilosec)
Once daily (OD)
Orally (Per os)
Over the counter (OTC)
Oxycodone (OxyContin)
Oxygen (O_2)
Pantoprazole (Protonix)
Paroxetine (Paxil)
Patient-controlled analgesia (PCA)
Penicillin V (Veetids)

Phenytoin (Dilantin)
Pioglitazone (Actos)
Pitocin (Oxytocin)
Pneumococcal conjugate vaccine
Potassium chloride (Klor-Con)
Pravastatin (Pravachol)
Prednisone (Deltasone)
Prescription (Rx)
PRN—from the Latin “pro re nata”
Promethazine (Phenergan)
Propranolol (Inderal)
Proton pump inhibitors (PPI)
Quetiapine (Seroquel)
Quinapril (Accupril)
Ramipril (Altace)
Ranitidine (Zantac)
Ringer’s solution
Risperidone (Risperdal)
Rosiglitazone (Avandia)
Rx—perscription
Saline
Sertraline (Zoloft)
Sildenafil (Viagra)
Simvastatin (Zocor)
Sodium chloride (NaCl)
Spironolactone (Aldactone)
Subcutaneous (sq)
Sulfamethoxazole–trimethoprim (Bactrim)
Three times a day (tid)
To keep open (TKO)
Tobramycin–dexamethasone (TobraDex)
Topiramate (Topamax)
Total parenteral nutrition (TPN)
Toxin
Tramadol (Ultram)
Triamterene–hydrochlorothiazide (Dayside)
Twice daily (bid)
Unit-based dosing
Valsartan (Diovan)
Verapamil (Isoptin)
Warfarin (Coumadin)
Zolpidem (Ambien)

Natural Language Processing

A subfield of computer science, artificial intelligence, and computational linguistics concerned with developing algorithmic techniques to enable computers to understand human-generated written or spoken natural language.

- Acronym expansion
- Acronym standardization
- Anaphoric references
- Annotate
- Annotation
- Bigrams
- Bound morpheme
- Clauses
- Concept hierarchy
- Context deficit
- Context-free grammar
- Contextual meaning
- Corpora
- Derivational morpheme
- Double negative detection
- Exception rules
- Exceptions
- Foreign language detection
- Grammar
- Inflectional morpheme
- Information extraction
- Irony detection
- Label
- Language modeling
- Lexeme
- Lexical form
- Lexical variants
- Lexicon
- Logical connections
- Machine translation
- Map tables
- Metamap
- Morpheme
- Natural language processing (NLP)
- Negation
- Negative dictionary
- N-grams
- Parse

Parse tree
Part of speech tagging
Probabilistic context free grammar
Profanity detection
Punctuation
Punctuation correction
Referential expression
Sarcasm detection
Semantic analysis
Semantic grammar
Semantic mapping
Semantic pattern
Semantic type
Sentiment analysis
Specialized vocabulary mapping
Spelling check
Spelling correction
Stem
Stop word list
Stop words
String
Syntax verification
Term
Text parsing
Tokenization
Tokens
Trigrams
Valence weighting
Vector mapping
White space
Word duplication
Word sense
Word sense disambiguation

Network Security

The activities, policies, and practices an organization uses to protect, prevent, and monitor for unauthorized access, misuse, unintentional modification, or denial of access to a computer network and the network-accessible data, information, and knowledge it contains. Network security involves the authorization of access to data in a network, which is controlled by the network administrator. It includes both hardware and software technologies.

- Active attack
- Airgap
- Asymmetric cryptography
- Attack
- Attack method
- Attack mode
- Attack pattern
- Attack signature
- Attacker
- Back door
- Blacklist
- Bot
- Bot herder
- Bot master
- Botnet
- Computer network defense analysis
- Critical infrastructure
- Cyber infrastructure
- Cybersecurity
- Denial of service
- Distributed denial of service
- Drive-by download
- Dynamic attack surface
- Firewall
- Hacker
- Intrusion
- Intrusion detection
- IP sec (Internet Protocol Security) logic bomb
- Network mapper (Nmap)
- Network resilience
- Next-generation firewall
- Packet capture
- Penetration
- Penetration test (Pen test)
- Perimeter definition

Pretty Good Privacy (PGP)
Private key
Proxy access
Public key
Public key cryptography
Public key encryption
Public key infrastructure (PKI)
Remote desktop protocol (RDP)
Secure Socket Layer (SSL)
System integrity
System security analysis
System security architecture
Virtual private networks (VPNs)

Organization

A legal entity consisting of an organized group of people that has a collective purpose or goal. There are a variety of types of organizations, including business corporations, governments, nongovernmental organizations, political organizations, international organizations, armed forces, charities, societies, associations, not-for-profit corporations, partnerships, cooperatives, and educational institutions.

- Accountable Care Organization (ACO)
- Ambulatory Care Group (ACG)
- Cochrane Collaboration
- Community Health Information Network (CHIN)
- Community Health Management Information Systems (CHMIS)
- Digital Preservation Coalition
- Disease Management
- For-Profit
- Foundation for Accountability (FACCT)
- Group model health maintenance organization
- Health care organization (HCO)
- Health Maintenance Organization (HMO)
- Home and Community-Based Services (HCBS)
- Institutional Health Services
- Internet Service Provider (ISP)
- Local Service Provider
- Managed Care Organization (MCO)
- Managed competition
- N3 Service Provider (N3SP)
- National Application Service Provider (NASP)
- Nationwide Health Information Network (NwHIN)
- Network model HMO
- Network-model health maintenance organization
- Nonprofit/Not-For-Profit
- Open archives initiative
- Pharmaceutical Benefits Manager (PBM)
- Physician Hospital organization
- Preferred Provider Organization (PPO)
- Prepaid group practice
- Provider Sponsored Organization (PSO)
- Purchasing coalitions
- Regional network
- Social Health Maintenance Organization (SHMO)
- Staff model health maintenance organization (HMO)
- The Joint Commission (TJC)
- The Joint Commission for Accreditation of Healthcare Organizations (JCAHO)
- World intellectual property organization

Patient Safety

The field of study that focuses on the policies, procedures, and activities designed to prevent accidental or preventable harm (e.g., medical errors, injuries, accidents, and infections) produced in the course of providing medical care to patients. Research and activities emphasize the system of care delivery rather than focusing entirely on the activities of individuals that are designed to prevent errors, and to learn from errors that occur. The field is built on the concept of a blame-free culture of safety that involves healthcare professionals, organizations, and patients.

Active error

Adverse drug event (ADE)

Adverse drug reaction (ADR)

Adverse event

Blame-free culture

Blunt end

Checklist

Checklist effect

Clinical risk

Clinical risk analysis

Clinical risk control

Clinical risk estimation

Clinical risk evaluation

Clinical risk management

Clinical risk management file

Clinical risk management plan

Clinical risk management process

Clinical safety

Clinical safety case

Clinical safety case report

Clinical safety officer

Close call

Commercial off-the-shelf (COTS) product

Common format

Failure mode and effects analysis (FMEA)

Fixation error

Harm

Hazard

Hazard log

Health IT System
Hospital-acquired
Iatrogenic event
Incident
Initial clinical risk
Intended use
Issue
Likelihood
Manufacturer
Never events
Nonhealth product
Nosocomial
Patient
Postdeployment
Procedure
Release
Residual clinical risk
Risk
Risk factor
Safety incident
Safety incident management log
Sentinel event (SE)
Sentinel event alert (SEA)
Serious safety event (SSE)
Severity
Technology-related event (TRE)
Top management
Unintended consequences

People

The men and women who have made important contributions to the field of clinical informatics. This category also includes the titles or roles within the organization that people routinely fill.

Al Barrak, Ahmed
Al-Shorbaji, Najeeb
Altman, Russ
Altuwaijri, Majid
Ameen, Abu-Hanna
Ammenwerth, Elske
Andersen, Stig Kjaer
Aronsky, Dominik
Bakken, Suzanne
Bakker, Ab
Ball, Marion J.
Barnett, G. Octo
Bates, David W.
Bellazzi, Riccardo
Bleich, Howard L.
Blobel, Bernd
Borycki, Elizabeth
Brennan, Patricia Flatley
Butte, Atul
Carr, Robyn
Chang, Polun
Chief Clinical Informatics (Information) Officer (CCIO)
Chief Privacy Officer
Chute, Christopher G.
Cimino, James J.
Classen, David C.
Coiera, Enrico
Collen, Morris F.
Curmudgeon
Database Administrator (DBA)
De Moor, Georges
Degoulet, Patrice
Detmer, Don E.
Engelbrecht, Rolf
Espinosa, Amado
Eysenbach, Gunther
Fieschi, Marius
Fox, John
Friedman, Carol
Friedman, Charles P.

Gardner, Reed M.
Geissbuhler, Antoine
Get Out of My Emergency Room (GOMER)
Gogia, Shashi
Gonzalez Bernaldo de Quiros, Fernan
Greenes, Robert A.
Hammond, W. Edward
Hanmer, Lyn
Hannah, Kathryn
Hannan, Terry
Hasman, Arie
Haux, Reinhold
Haynes, R. Brian
Health Level 7 (HL7) Analyst
Hersh, William R.
Holmes, John
Hovenga, Evelyn
Hripcsak, George
Hullin, Carol
Humphreys, Betsy L.
Hussein, Rada
Integration conversion programmer
Integration data architect
Integration project manager
Integration testing coordinator
Johnson, Kevin B.
Kimura, Michio
Klaus-Peter, Adlassnig
Knowledge engineer
Koch, Sabine
Kohane, Isaac S.
Kulikowski, Casimir
Kushniruk, Andre
Leao, Beatriz de Faria
Lederberg, Joshua
Ledley, Robert S.
Lehmann, Christoph
Leong, Tze Yun
Li, Yu-Chuan (Jack)
Liaw, Siaw-Teng
Lindberg, Donald A.B.
Lorenzi, Nancy M.
Lovis, Christian
Lun, Kwok Chan (KC)

Luna, Daniel
Mandil, Salah Hussein
Mandl, Ken D.
Mantas, John
Maojo, Victor
Marcelo, Alvin
Margolis, Alvaro
Marin, Heimar de Fatima
Martin-Sanchez, Fernando
Masic, Izet
McCray, Alexa
McDonald, Clement "Clem" J.
Mihalas, George
Miller, Perry L.
Miller, Randolph A.
Moehr, Jochen
Moen, Anne
Moghaddam, Ramin
Moore, Jason H.
Moura, Lincoln de Assis
Murray, Peter
Musen, Mark A.
Nohr, Christian
Norman, Donald A.
Ohno-Machado, Lucila
Otero, Paula
Park, Hyeoun-Ae
Patel, Vimla L.
Peterson, Hans
Pincirolì, Francesco
Protti, Denis
Rector, Alan
Rienhoff, Otto
Ritchie, Marylyn D.
Roberts, Jean
Roger France, Francis
Sabbatini, Ranato
Safran, Charles
Saltz, Joel H.
Saranto, Kaija
Scherrer, Jean-Raoul
Schneider, Werner
Seroussi, Brigitte
Shabo, Amnon

Shahar, Yuval
Shaikh, Aziz
Shortliffe, Edward “Ted” H.
Slack, Warner V.
Smith, Barry
Stead, William W.
Szolovits, Peter
Takeda, Hiroshi
Talmon, Jan
Tanaka, Hiroshi
Tchuitcheu, Ghislain Kouematchoua
Tierney, William M.
Toyoda, Ken
van Bemmelen, Jan H.
van der Lei, Johan
Warner, Homer R.
Weber, Patrick
Weed, Lawrence
Westbrook, Johanna
Westbrooke, Lucy
Wiederhold, Giovanni “Gio” C. M.
Wong, Chun-Por (CP)
Wright, Graham
Wu (Ying Wu), Helen
Wyatt, Jeremy
Zhao, Junping
Zvarova, Jana

Physiologic Measurement

Techniques used to assess or measure the function of major organ systems or other bodily functions either directly or indirectly. Physiological measurements can be obtained using a variety of methods, including: self-report; direct observation; direct measurement; indirect measurement; laboratory tests; and electronic monitoring.

- ABO blood group (ABO)
- Acid–base balance
- Acidosis
- Activated partial thromboplastin time—aPTT (PTT)
- Acute physiology and chronic health evaluation (APACHE)
- Acute physiology score (APS)
- Acute renal failure (ARF)
- Alkalosis
- Alveolar to arterial partial pressure of oxygen gradient (A–a gradient)
- Amylase
- Antinuclear antibodies (ANA)
- Apgar score
- Basic metabolic panel (BMP)
- Birth weight (BW)
- Blood pressure (BP)
- Blood urea nitrogen (BUN)
- Body mass index (BMI)
- Body surface area (BSA)
- Complete blood count (CBC)
- Comprehensive metabolic panel (CMP)
- Creatine clearance (CrCl)
- Diastole
- Draw time
- Eindhoven’s triangle
- Electroencephalogram (EEG)
- Electrolyte balance
- Electrolyte panel (lytes)
- Estimated creatinine clearance
- Fluid balance
- Glasgow Coma Score (GCS)
- Glomerular filtration rate (GFR)
- Health evaluation (Apache–II) scoring system
- Height (Ht)
- Hematocrit (hct)
- Hemoglobin (Hb)
- Hemoglobin A1C or Glycohemoglobin (HbA1C)

Hemoglobin and Hematocrit (H&H)
High/Low interpretation
High-density lipoprotein (HDL)
High-Density lipoprotein cholesterol test (HDL-C)
Intake and output (I&O)
Intelligence quotient (IQ)
International normalized ratio (INR)
Laboratory alert
Last menstrual period (LMP)
Lipid profile
Liver (hepatic) function tests (LFT)
Mean arterial pressure (MAP)
Metabolic acidosis
Metabolic alkalosis
Microalbumin
Normal body temperature (37°C)
Normal body temperature (98.6°F)
Normal range
Organ-system failure (OSF) scoring system
Pain score
Partial thromboplastin time (PTT)
Prothrombin time (PT)
Pulmonary function test (PFT)
Pulse (P)
Pupils equal, round, and reactive to light and accommodation (PERRLA)
QRS wave
Range of motion (ROM)
Respiratory acidosis
Respiratory alkalosis
Result time
Rhesus factor blood group (Rh)
Saturation of peripheral oxygen (SpO₂)
Simplified acute physiology score (SAPS) scoring system
Spirometry
Therapeutic intervention scoring system (TISS) scoring system
Thyroid-stimulating hormone (TSH)
Thyroxine (T₄)
Urinalysis (UA)
Urine culture
Vital signs (VS)
Weight (WT)
Within normal limits (wnl)

Physiology

A subfield of biology that deals with the normal functions of living organisms and their parts. Physiologists focus on how organisms, organ systems, organs, cells, and biomolecules carry out the chemical or physical functions that are required to maintain a living system.

Absolute refractory period

Absorption

Acclimation

Accommodation

Action potential

Activation

Active transport

Adaptation

Aerobic

Alimentary

Ambient

Amplification

Anoxia

Antagonist

Arteriovenous

Balance

Bowel movement (BM)

Catabolism

Circadian rhythm

Compartment

Compliance

Contraction

Dead on arrival (DOA)

Differentiation

Diffusion

Digestion
Dose response curve
Equilibrium
Evoked
Excretion
Exsanguinate
Fibrillation
Gustatory
Habituation
Homeostasis
Ingestion
Inhibition
Leak
Live
Long-term memory
Mechanism
Mental status
Metabolism
Metabolite
Micturition
Motility
Phase
Plasticity
Prandial
Receptor
Recurrent
Reflex
Refractory period
Regulate
Respiration
Retro grade
Secretion
Short-term memory
Steady-state
Stimulus
Stimulus response
Supramaximal
Systole
Threshold
Transport
Upregulation
Ventilate
Ventilation

Probability Distribution

A mathematical description of a particular phenomenon in terms of the probabilities of events. Examples of such phenomena include the measurement of naturally or man-made events, the results of an experiment, or a survey. A probability distribution is defined in terms of an underlying sample space, which is the set of all possible outcomes of the phenomenon being observed. The sample space may be the set of real numbers or a higher-dimensional vector space, or it may be a list of nonnumerical values (e.g., the sample space of a coin flip would be heads or tails).

Bernoulli distribution

Bimodal distribution

Binomial distribution

Exponential distribution

Gaussian distribution

Kurtosis

Log-normal distribution

Normal distribution

Poisson distribution

Power law distribution

Skewed

Skewness

Uniform distribution

Professional Organization

Most often a nonprofit organization with the goal of furthering the mission of a particular profession, maintaining control, or oversight of the legitimate practice of those in the profession and their privileged and powerful position as a controlling body, promoting the interests of those individuals engaged in that profession, and safeguarding the public's interest in the field. Many professional organizations are involved in the development and monitoring of professional and academic educational programs, and updating the skills of its membership. Often the organization is responsible for overseeing or promoting professional certification within their field to indicate that a person possesses the required qualifications to practice safely and effectively in their specific subject area. Finally, many professional organizations act as learned societies for the academic disciplines underlying their professions.

- American Academy of Family Physicians (AAFP)
- American Academy of Pediatrics (AAP)
- American Cancer Society (ACS)
- American Civil Liberties Union (ACLU)
- American College of Medical Informatics (ACMI)
- American College of Radiology (ACR)
- American Dental Association (ADA)
- American Diabetes Association (ADA)
- American Health Information Management Association (AHIMA)
- American Heart Association (AHA)
- American Hospital Association (AHA)
- American Lung Association (ALA)
- American Medical Association (AMA)
- American Medical Informatics Association (AMIA)
- American Nurses Association (ANA)
- American Psychiatric Association (APA)
- American Psychological Association (APA)
- American Public Health Association (APHA)
- Association for Retarded Citizens (ARC)
- Association of Medical Directors of Information Systems (AMDIS)
- Canadian Medical Association (CMA)
- College of American Pathology (CAP)
- College of Healthcare Information Management Executives (CHIME)
- Computer-Based Patient Record Institute (CPRI)

Electronic Health Record Association (EHRA)
Health Information Management and Systems Society (HIMSS)
Healthcare Information and Management Systems Society (HIMSS)
Independent Physician Association (IPA)
Independent Practice Association (IPA)
Institute for Healthcare Improvement (IHI)
Institute for Safe Medication Practices (ISMP)
Institute of Electrical and Electronic Engineers (IEEE)
Institute of Medicine (IOM)
International Academy of Health Sciences informatics (IAHSI)
International Medical Informatics Association (IMIA)
Medical Group Management Association (MGMA)
Medinfo
Mothers Against Medical Error (MAME)
National Academy of Engineering (NAE)
National Academy of Medicine (NAM) [formerly, Institute of Medicine (IOM)]
National Academy of Science (NAS)
National Alliance for Health Information Technology (NAHIT)
National eHealth Transition Authority (NeHTA)
National Electrical Manufacturers Association (NEMA)
Object Management Group (OMG)
Professional Standards Review Organization (PSRO)
Radiological Society of North American (RSNA)
Visiting Nurse Association (VNA)
Workgroup (WG)

Programming Language

A formal computer language that includes a controlled vocabulary and set of grammatical rules designed to instruct a computer how to perform specific tasks. Programming languages are used to create programs to control the behavior of a machine or to express algorithms. The description of a programming language is usually split into two components: syntax (form) and semantics (meaning).

Assembly language

C Sharp (C#)

C++

Cache

Common Business-Oriented Language (COBOL)

Fortran—FORMula TRANslation

Hypertext Markup Language (HTML)

Hypertext Preprocessor (PHP)

Java

JavaScript

Job Control Language (JCL)

LISP (LISt Processor)

Machine language

Markup language

Massachusetts's General Hospital (MGH) Utility

Multi-Programming System (MUMPS)

Mathematical Markup Language (MathML)

MicroArray and Gene Expression Markup Language (MAGE-ML)

Object Constraint Language (OCL)

Ontology Web Language (OWL)

Perl

Python

R programming language

Ruby on Rails

Structured Query Language (SQL)

Swift

Symbolic programming language

Quality Management

A business philosophy, focused on customer satisfaction that leads to a set of actions or system to manage the activities and tasks needed to maintain a desired level of consistency or even excellence within a product, process, service, or business. It has four main components: quality planning, quality assurance, quality control, and quality improvement. Quality management is focused not only on product and service quality, but also on the means to achieve it.

- Access and equity for patient populations
- Apples-to-apples comparison
- Automated measure submission to CMS
- Average length of stay (ALOS)
- Benchmark
- Case mix adjustment
- Case Mix Index (CMI)
- Case-rate
- Catheter-associated urinary tract infection (CAUTI)
- Central line-associated bloodstream infection (CLABSI)
- Charlson comorbidity index
- Clinical performance measures
- Clinical quality measure
- Continuous quality improvement (CQI)
- Cost-effectiveness analysis (CEA)
- Customer focus
- Define, Measure, Analyze, Improve, Control (DMAIC)
- Effective
- Efficiency
- Efficient
- Electronic Clinical Quality Measure (eCQM) (eMeasure)
- Engagement of people
- Episode of care
- Equitable
- Evidence-based decision-making
- Expanded quality assurance (XQA)
- Experience rating
- Fraud, waste, and abuse (FWA)
- Health Plan Employer Data and Information Set (HEDIS)
- Healthcare-acquired infection (HAI)
- Healthcare Cost and Utilization Project Quality Indicators (HCUP QIs)
- Healthcare Effectiveness Data and Information Set (HEDIS)
- Health-related quality of life (HRQL)
- Hospital acquired infection (HAI)

Inpatient quality reporting
Instrumental activities of daily living (IADLs)
Leadership
Lean management
Length of stay (LOS)
Level of care criteria
Medical Outcomes Study 36 Item Short Form Health Survey (SF-36)
Metrics
Morbidity
Mortality
National Patient Safety Foundation (NPSF)
National Patient Safety Goal (NPSG)
Pareto principle
Patient safety indicator (PSI)
Patient-centered
Pay for Performance (P4P)
Peer Review Organization (PRO)
Physician Quality Reporting Initiative (PQRI)
Physician Quality Reporting System (PQRS)
Process approach
Producer price index (PPI)
Quality assurance (QA)
Quality control (QC)
Quality improvement (QI)
Quality improvement strategy
Quality management system
Quality measurement (management) dashboard
Quality of Care
Quality planning
Quality Reporting Data Architecture
Rapid-cycle improvement
Relationship management
Reporting period
Root-cause analysis (RCA)
Safe
Severity of illness
Six Sigma
Surgical Quality Alliance (SQA)
System improvement
Timely
Total quality improvement/management (TQI/TQM)
Value of a statistical life (VSL)
Ventilator-associated pneumonia (VAP)
Zero defects (ZD)

Screening Test

Laboratory or radiology tests used to identify individuals within a population who are at an increased risk for a clinical condition (e.g., high cholesterol levels) or disease (e.g., mammogram for breast cancer) before they have signs, symptoms, or even realize they may be at risk so that preventive measures can be taken. They are most valuable when they are used to screen for diseases that are both serious and treatable, so that there is a benefit to detecting the disease before symptoms begin at their most treatable stages. Good screening tests should be highly sensitive, or able to accurately identify those individuals who might have a given disease. A positive screening test often requires further testing with a more specific test or one that is better able to correctly exclude those individuals who do not have the given disease or to confirm a diagnosis.

- Autism screening
- Behavioral assessments
- Blood pressure screening
- Body mass index (BMI) measurements
- Cervical dysplasia screening
- Depression screening
- Developmental screening
- Dyslipidemia screening
- Fluoride chemoprevention supplements
- Gonorrhea preventive medication
- Hearing screening
- Hematocrit or hemoglobin screening
- Hemoglobinopathies
- Hepatitis B screening
- Human immunodeficiency virus (HIV) screening
- Human papillomavirus screening test (Pap smear)
- Hypothyroidism screening
- Lead screening
- Obesity screening and counseling
- Oral health risk assessment
- Phenylketonuria (PKU) screening
- Sexually transmitted infection (STI) prevention, counseling, and screening
- Sickle cell screening
- Tuberculin testing
- Vision screening

Standard

A standard, or well-accepted, uniform set of terms, concepts, procedures, structures, or capabilities, that have been carefully defined and agreed upon by a respected organization, is necessary to allow computers to transfer data, information, or knowledge from one device or application to another.

American Standard Code for Information Interchange (ASCII)

Arden syntax

Association

Clinical Context Object Workgroup (CCOW)

Clinical Document Architecture (CDA)

Common data elements

Common Industry Format (CIF)

Conformance Statement

Consolidated Clinical Document Architecture (C-CDA)

Continuity of Care Document (CCD)

Continuity of Care Record (CCR)

Cross-Enterprise Document Sharing (XDS)

Curly braces problem

Data interchange standard

Data standards

De jure standard

Defacto standard

Digital European cordless telephone (DECT)

Digital Imaging and Communications in Medicine (DICOM)

Digital Object Identifier (DOI)

Direct protocol

Domain Name System (DNS)

Draft Standard for Trial Use (DSTU)

Dublin Core Metadata Initiative (DCMI)

Extended Binary Coded Decimal Interchange Code (EBCDIC)

eXtensible Mark-up Language (XML)

Fast Healthcare Interoperability Resources (FHIR)

Federal Information Processing Standards (FIPS)

File Transfer Protocol (FTP)

Formal standard

Graphics Interchange Format (GIF)

Guideline Interchange Format (GLIF)

Hypertext transfer protocol (http)

Hypertext Transfer Protocol Secure (HTTPS)

Infobutton

Integrated Services Digital Network (ISDN)

Integrating the Healthcare Enterprise (IHE)

International Standard Book Number (ISBN)
Internet address (IP address)
Internet Control Message Protocol (ICMP)
Internet Mail Access Protocol (IMAP)
Internet Protocol (IP)
Internet standards
Interoperability standards
Joint Photographic Experts Group (JPEG)
Lightweight Directory Access Protocol (LDAP)
Logical Observation Identifiers Names and Codes (LOINC)
Message
Messaging standards
Multipurpose Internet mail extensions (MIME)
Network Time Protocol (NTP)
Open System Interconnection (OSI)
Patient identifier (unique, national)
Portable Document Format (PDF)
Portable Operating System Interface Exchange (POSIX)
Post office protocol (POP)
Privacy enhanced mail (PEM) protocol
Protocol for metadata harvesting
Reference Information Model (RIM)
Resource description framework
RS-232
Secure file transfer protocol (SFTP)
Secure Multipurpose Internet Mail Extensions (S-MIME)
Security Assertion markup Language (SAML)
Simple mail transport protocol (SMTP)
Standard development process
Standard Generalized Markup Language (SGML)
Standard international (SI) system of units
Standard Protocol and RDF Query Language (SPARQL)
Structured Mark-up Language (SML)
Technology Readiness Levels (TRL)
Transaction standards
Transmission Control Protocol (TCP)
Transmission Control Protocol (TCP) and the Internet Protocol (IP) (TCP/IP)
Unicode
Unified Medical Language System (UMLS)
XDR and XDM for Direct Messaging specification
XML format
XML Paper Specification (XPS)
Z-segment (HL-7 v2.x)

Standards Organization

A standards organization's [also referred to as a standards body, standards developing organization (SDO), or standards setting organization (SSO)] primary activities include developing, coordinating, promulgating, revising, amending, reissuing, interpreting, or otherwise producing technical standards. The resulting standards are intended to address the needs of a group of affected adopters (e.g., product or service developers, purchasers, and users). Most standards are voluntary in that they are offered for adoption by groups or industry without being mandated in law. Some standards become mandatory when they are adopted by regulators as legal requirements in particular domains.

American National Standards Institute (ANSI)

American Society for Testing and Materials (ASTM)

Clinical Data Interchange Standards Consortium (CDISC)

Conseil Européen pour la recherche nucléaire (CERN)

European Committee on Standardization (CEN)

Health Informatics Standards Board (HISB)

Health Level Seven (HL-7 or HL7)

Health on the Net Foundation (HON)

International Conference on Harmonization

International Health Terminology Standards Development Organization (IHTSDO)

International Standards Organization (ISO)

Internet Corporation for Assigned Names and Numbers (ICANN)

National Committee for Quality Assurance (NCQA)

National Information Standards Organization (NISO)

National Institute for Standards and Technology (NIST)

National Quality Forum (NQF)

Office of the National Coordinator for Health Information Technology Authorized Testing Body (ONC-ATB)

SNOMED International

Standard development organizations (SDOs)

Workgroup on Electronic Data Interchange (WEDI)

World Wide Web Consortium (W3C)

Statistical Test

A mathematical method designed to help make a quantitative decision about differences between two or more groups of measurements or processes. The intent is to determine whether there is enough evidence (e.g., a large enough difference between the measurements or processes in each group while taking into consideration potential inaccuracies in the measurements) to “reject” a conjecture or hypothesis about the measurement or process. The conjecture is called the null hypothesis (i.e., there is no difference between the two groups).

- Analysis of variance (ANOVA)
- Area under the curve (AUC)
- Bonferroni correction
- Case-mix normalization
- Chi-square test
- Coefficient of variation
- Correlation
- Correlation coefficient
- Cronbach’s alpha
- Goodness of fit
- Kappa value
- Kruskal–Wallis one-way analysis of variance
- Least squares fitting
- Likelihood ratio
- Logistic regression
- Mann–Whitney test
- Mean average precision (MAP)
- Mean square error
- Measures of concordance
- Measures of discordance
- Nonparametric test
- p-Value
- Paired comparison
- Parametric test
- Receiver operating characteristic (ROC) curve
- r-Squared
- Stasis statistical test
- Statistical Process Control (SPC)
- Student’s t-test
- Survivorship bias
- Wilcoxon statistic
- z-Score
- z-Test

Statistics

The science concerned with the collection, analysis, interpretation, presentation, and organization of data. One of its main functions is to help scientists measure, control, and communicate uncertainty so as to help them learn (i.e., to separate fact from chance) from their data. Statistical methods can be used to help solve a wide variety of scientific, social and business problems.

80/20 rule

A priori probability

Absolute risk

Accuracy

Aggregate

Allocation bias

Anomalous

Artifact

Baseline measurement

Belief network

Categorical data

Causal factor

Centrality

Chance

Clinical subgroup

Clinically relevant population

Cluster

Clustering

Composite estimation

Conditional event

Conditional independence

Conditional probability

Confidence interval

Confidence limits

Contingency table

Cross validation

Cumulative scaling

Curve fitting

Curvilinear

Data interpretation

Data normalization

Decile

Degrees of freedom

Delta

Density coefficients

Dependent variable

Derived parameter

Descriptive variable
Effect size
Error bars
Error function
Estimator (biased, unbiased)
Expected value
External validity
False negative
False negative rate (FNR)
False positive
False positive rate (FPR)
Frequency
Frequency-amplitude domain
Generalizability
Group
Guttman scaling
Hypothesis testing
Independent
Independent variable
Internal validity
Interobserver variation
Interrater reliability
Likert scale
Mean
Median
Metropolitan statistical area (MSA)
Mode
Model
Modeling
Modeling uncertainty
Negative predictive value
Nonsignificant (NS)
Nonsampling error
Nonstationary signals
Normalization
Normalize
Null hypothesis
Null values
Odds
Odds likelihood form
Odds ratio
Odds ratio form
Outcome measure
Outcome variable
Parzen windowing method

Percentile
Polynomial curve fitting
Pool
Pooled data
Population segmentation
Positive predictive value
Posterior probability
Posttest probability
Predictive model
Predictive value
Pretest probability
Prevalence
Prior probability
Probabilistic relationship
Probability
Quartile
Random error
Range
Ratio adjustment
Regression to the mean
Relative risk
Reliability
Reliability estimate
Sampling error
Sampling variance
Scalogram analysis
Scoring
Sensitivity
Sensitivity analysis
Sensitivity calculation
Severity classification
Significance level
Significance testing
Specific
Specificity
Standard deviation
Standard error
Standard error of the mean
Stationary signals
Statistical error
Stochastic
Strata (State Stratification)
Synthetic estimates

Systematic error
Time-amplitude domain
Transition matrix
Transition probabilities
True negative
True negative rate (TNR)
True negative result
True positive rate
True positive rate (TPR)
True positive result
Type 1 error
Type 2 error
Uncertainty
Uniform
Validation data set
Validity
Validity check
Value of information
Variable
Variance
White noise
Yield optimization
Z-transform

Study Design

The process by which experiments, trials of different interventions, or observational studies are designed, developed, and implemented. The goal of a study is to either help the researcher better understand the issue under examination or to assess the safety, efficacy, or mechanism of action of an investigational product, medication, or device. There are many different types of study designs.

- Adverse selection
- Anonymous reporting
- Assignment
- Before-after study
- Biased selection
- Boot-strapping
- Case Mix
- Case severity
- Case-control
- Citation analysis
- Clinical equipoise
- Clinical trial
- Cognitive interviewing
- Cognitive task analysis
- Cognitive walk through
- Cohort study
- Comorbidity
- Comparison-based approach
- Conceptual model
- Conjoint analysis
- Control group
- Convenience sample
- Cost-effectiveness analysis
- Critical experiment
- Crucial experiment
- Decision facilitation approach
- Delphi method
- Demonstration study
- Descriptive study
- Deterministic
- Discourse
- Distributed research network (DRN)
- Double-blind study
- Effective sample size
- Effectiveness
- Efficacious

Efficacy
Emergent property
Ethnographic study
Experiment
Experimental design
Favorable selection
Focus group
Formal systems analysis
Gold standard
Hawthorne effect
Healthcare outcomes
Heuristic evaluation
Hindsight bias
Historical controls
Historically controlled study
Homophily
Human subjects
Hypothesis
In silico
In situ
In vitro
Log analysis
Measurement study
Member checking
Meta-analysis
Modified Delphi method
Monte Carlo simulation
Multistage probability sample
Naturalistic
Number needed to treat
Nyquist frequency
Oral history interview
Orienting issues
Orienting questions
Outcomes
Panel survey
Participatory action research (PAR)
Pattern analysis
Placebo
Placebo effect
Plan, Do, Study, Act (PDSA) cycle
Primary sampling unit (PSU)
Prospective study
Protocol

Purposive sampling
Qualitative data analysis
Qualitative methods
Qualitative model
Quantitative data analysis
Quantitative methods
Random allocation
Randomization
Randomized clinical trial (RCT)
Randomly
Rapid assessment process (RAP)
Reductionist approach
Representativeness
Research protocol
Retrospective chart review
Retrospective study
Sample attrition rate
Sample size
Sample size calculation
Sampling
Screening
Segmentation
Selection bias
Selectivity
Semistructured interviews
Simulation
Site visit
Snowball survey technique
Structured interview
Study population
Study protocol
Subject
Surveillance methods
Survey
Test data set
Think aloud protocol
Time and motion study
Time-motion analysis
Triangulation
Unstructured interview
Usability inspection
Word cloud analysis
Work sampling study

Surgical Procedure

A medical procedure involving an incision with instruments. Such procedures are generally performed to repair damage or arrest disease in a living body. Most surgical procedures are performed under sterile conditions, to reduce the threat of infection, with some type of anesthesia that blocks the patient's pain receptors.

- Ablation
- Adenoidectomy
- Amputation
- Angioplasty
- Arthroplasty
- Atherectomy
- Biopsy (Bx)
- Biopsy of bronchus
- Breast biopsy
- Broken bone repair
- Caesarean section (C-section)
- Cardiac catheterization
- Cataract removal
- Cholecystectomy (gallbladder removal)
- Circumcision
- Colonoscopy
- Colposcopy
- Common bile duct exploration
- Coronary artery bypass graft (CABG)
- Cryosurgery
- Cystoscopy
- Debridement of wound, infection, or burn
- Decompression peripheral nerve
- Diagnostic dilatation and curettage (D&C)
- Endoscopic surgery
- Endoscopy
- Endoscopy of the urinary tract
- Esophageal dilatation
- Excise
- Excision of cervix and uterus
- Excision of semilunar cartilage of knee
- Femoral hernia repair
- Gastroscopy
- Hand surgery
- Hemilaminectomy
- Hysterectomy
- Image-guided surgery

Implants
Incision and drainage, skin and subcutaneous tissue (I&D)
Inguinal hernia repair
Joint replacement
Knee cartilage replacement therapy
Laminectomy
Laparoscopy
Laryngoscopy
Laser-assisted in situ keratomileusis (LASIK)
Ligate
Lobotomy
Lumpectomy of breast
Myringotomy (ear tube surgery)
Neovaginoplasty
Partial excision bone
Percutaneous transluminal coronary angioplasty (PTCA)
Radiosurgery
Sigmoidoscopy
Stent procedure
Stereotactic surgery
Suture
Tonsillectomy
Total knee replacement (TKR)
Transurethral removal urinary obstruction
Upper gastrointestinal endoscopy
Ureteral catheterization
Vaginoplasty
Xenotransplantation

System Implementation

The clinical information system implementation process encompasses analyzing requirements, designing new workflows, purchasing hardware and software, installing, configuring, customizing, testing, and training users on both the hardware and software required to make something happen. The word “deployment” is often used as a synonym.

Acceptance testing

Adopt, implement, upgrade (certified EHR Technology)

Analysis phase

Big Bang

Broad and shallow

Build phase

Competency testing

Conformance testing

Data conversion

Data migration

Debriefing

Decommissioning systems

Deployment

Design phase

Document-centric information exchange

Empirical testing

End-user testing

Foundational interoperability

Functional testing

Functionally comparable data models

Historical data

Implementation

Implementation phase

Integrating data

Integration assessment

Integration testing

Interfacing data

Interoperability

Late adopter

Late majority

Legacy system

Luddite

Maintenance phase

Narrow and deep

Nudge

Optimization phase

Phased implementation
Phased installation
Postmortem
Regression testing
Semantic interoperability
Specification phase
Synchronizing content
Syntactic interoperability
System review form
System testing
Systems requirement planning
Technical characteristics
Test patient
Test script
Testing
Testing phase
Train the trainer
Transparency
Trialability
Unit testing
User rights and responsibilities
Zztest

Terminology

The field of study concerned with the systematic development, management, and interrelationships of specific terms and their use to define, label, and describe items, events, actions, and people, for example. These terms can consist of single words, compound words, or multiword expressions that in specific contexts are given specific meanings. Within a specific context or domain, the definition of these terms may deviate from the meanings the same words have in other contexts, domains, or even in everyday language.

- Abstraction
- Antonym
- Canonical form
- Child relationship
- Clinical modifications
- Coding scheme
- Component-of relationship
- Controlled terminology
- Deprecated term
- Eponym
- Global unique identifiers (GUIDs)
- Is-a relationship
- Isomorphic data exchange
- Kind-of relationship
- Language
- Lingua franca
- Measured-by relationship
- Measures relationship
- Multiaxial terminology
- Nomenclature
- Nonsemantic concept identifiers
- Not Otherwise Classified (NOC)
- Ontology
- Parent
- Part-of relationship
- Polyhierarchy
- Polysemy
- Postcoordination
- Pragmatics
- Precoordination
- Relationship
- Semantic relationship
- Semantics
- Sibling
- Standardize coding and classification

Sublanguage
Synonymy
Syntactic
Syntax
Taxonomy
Terminology authority
Terminology services
Thesaurus
Translation
Treated-by relationship
Treats relationship
Typology
Vocabulary
Work domain ontology (WDO)

Theory

An idea or coherent group of tested propositions, commonly regarded as correct, that are subject to further experimentation before they can be formally accepted as fact, or proven to be true. Theories are often used to provide the basis for an explanation of specific phenomena or the prediction of future phenomena.

- Actor–network theory (ANT)
- AORTIS (Aggregate, Organize, Reduce, Transform, Interpret, Synthesize) model of clinical summarization
- Bayes' theorem
- Blackboard architecture
- Centering theory
- Chaos
- Complex adaptive systems (CAS)
- Complexity theory
- Computability
- Data, information, knowledge, wisdom
- DeLone and McLean model of information systems
- DeMorgen's theorem
- Dempster–Shafer theory
- Distributional semantics
- Empiricism
- First law of informatics—do not reuse data
- Fundamental theorem of informatics
- Gartner Hype Cycle
- Grounded theory
- Health record banking model
- Holism
- Intuitionist-pluralist
- Just-in-time information model
- Logical positivist
- Negligence theory
- Nyquist theorem
- Occam's razor
- Paradigm
- Principle
- Prochaska's Stages of Change
- Publish and subscribe model
- Roger's diffusion of innovation theory
- Shannon's information theory
- Sociotechnical model of safe and effective health information technology implementation and use
- Systems Engineering Initiative for Patient Safety (SEIPS) model

Technology acceptance model (TAM)

Teleological

Theory of planned behavior

Trellis architecture

TURF (task, user, representation, and function)

Turing test

Unified theory of acceptance and use of technology (UTAUT)

Zipf's law

Unified Medical Language System Vocabulary

The UMLS, or Unified Medical Language System, is one of the crowning achievements of the US National Library of Medicine (NLM). It consists of a set of files and software that brings together many health and biomedical vocabularies and standards to enable interoperability between computer systems. The UMLS has been used to facilitate linking health information, medical terms, drug names, and billing codes to create or enhance applications, such as electronic health records, patient classification tools, clinical dictionaries, and medical language translators.

- Alcohol and Other Drug Thesaurus
- Alternative Billing Concepts
- Anatomical Therapeutic Chemical Classification System
- Authorized Osteopathic Thesaurus
- Beth Israel Vocabulary
- BioCarta online maps of molecular pathways
- Biomedical Research Integrated Domain Group Model
- Cancer Research Center of Hawaii Nutrition Terminology
- Cancer Therapy Evaluation Program—Simple Disease Classification
- Canonical Clinical Problem Statement System
- Clinical Care Classification
- Clinical Classifications Software
- Clinical Element Model (CEM)
- Clinical Terms Version 3 (CTV3) (Read Codes)
- Code on Dental Procedures and Nomenclature
- Common Terminology Criteria for Adverse Events
- Concept Unique Identifier (CUI)
- Consumer Health Vocabulary
- COSTAR
- COSTART
- CRISP Thesaurus
- Current Dental Terminology (CDT)
- Current Procedural Terminology (CPT)
- Definition
- Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-V)
- Diagnostic and Statistical Manual of Mental Disorders, Fourth edition (DSM-IV)
- Diagnostic and Statistical Manual of Mental Disorders, Third edition (DSM-III-R)
- Diseases Database
- FDA National Drug Code Directory
- FDA National Drug File

FDB MedKnowledge (formerly NDDF Plus)
Foundational Model of Anatomy Ontology
Gene Ontology
Gold Standard Drug Database
HCPCS Version of Current Dental Terminology (CDT)
Healthcare Common Procedure Coding System (HCPCS)
HL7 Vocabulary
Home Health Care Classification
HUGO Gene Nomenclature
International Classification for Nursing Practice (ICNP)
International Classification of Diseases, 10th Edition, Clinical Modification (ICD-10-CM)
International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM)
International Classification of Functioning, Disability, and Health (ICF)
International Classification of Functioning, Disability, and Health for Children and Youth
International Classification of Primary Care
International Statistical Classification of Diseases and Related Health Problems
Jackson Laboratories Mouse Terminology
KEGG Pathway Database
Korean Standard Classification of Disease
Library of Congress Subject Headings
Master Drug Data Base
MEDCIN
Medical Dictionary for Regulatory Activities Terminology (MedDRA)
Medical Entities Dictionary
Medical Subject Headings (MeSH)
Medical vocabularies
MedlinePlus Health Topics
Micromedex RED BOOK
Multum MediSource Lexicon
NANDA nursing diagnoses: definitions & classification
National Cancer Institute (NCI) Developmental Therapeutics Program
National Cancer Institute (NCI) Dictionary of Cancer Terms
National Cancer Institute (NCI) Division of Cancer Prevention Program
National Cancer Institute (NCI) SEER ICD Neoplasm Code Mappings
National Cancer Institute (NCI) Thesaurus
National Cancer Institute Nature Pathway Interaction Database
National Center Biomedical Information (NCBI) Taxonomy
National Council for Prescription Drug Programs (NCPDP)

National Drug Codes (NDC)
National Drug File Reference Terminology (NDF-RT)
NeuroNames Brain Hierarchy
North American Nursing Diagnosis Association Taxonomy (NANDA)
Nursing Interventions Classification (NIC)
Nursing Outcomes Classification (NOC)
Omaha system
Online Congenital Multiple Anomaly/Mental Retardation Syndromes
Online Mendelian Inheritance in Man (OMIM)
Patient Care Data Set
Perioperative Nursing Data Set
Pharmacy Practice Activity Classification
Physician Data Query
Physicians' Current Procedural Terminology, Spanish Translation
Read codes
Read thesaurus, American English Equivalents
Read thesaurus, Synthesized Terms
Registry Nomenclature Information System
RxNorm Vocabulary
SNOMED Clinical Terms, Spanish Language Edition
Source of Payment Typology
Specialist lexicon
Standard Product Nomenclature
Systemized nomenclature of medicine (SNOMED)
Systemized nomenclature of medicine clinical terminology (SNOMED-CT)
Systemized Nomenclature of Pathology (SNOP)
Thesaurus of Psychological Index Terms
Traditional Korean Medical Terms
US Centers for Disease Control and Prevention (CDC)
U.S. Food and Drug Administration (FDA)
UltraSTAR
UMDNS: product category thesaurus
UMLS Metathesaurus
Unified Code for Units of Measure (UCUM)
University of Washington Digital Anatomist
USP Model Guidelines
VA National Drug File
Vaccines Administered
Veterans Health Administration National Drug File
Veterinary Extension to SNOMED CT
World Health Organization (WHO) Adverse Reaction Terminology
Zebrafish Model Organism Database

Workflow

A predefined, coordinated, and repeatable pattern of activities facilitated by the systematic organization of physical, human, or information resources into processes that can transform materials, provide services, or process information. It is often depicted as a sequence of operations that one or more agents (i.e., people or computer programs) carry out to accomplish a specific task or set of tasks.

Actors

ADCVAANDIML (Admit, Diagnosis, Condition, Vital signs, Allergies, Activity, Nursing, Diet, IV fluids, Medications, Labs/procedures)

Admission

Advance care planning

Against medical advice (AMA)

Agents

Ambulatory Setting

Appointment

Business Process Modeling Notation (BPMN)

Capacity

Care pathway

Care plan

Care process

Change of shift/report

Clinical event

Clinical feedback

Clinical integration

Clinical pathway

Clinical process

Clinical process model

Clinical scenario

Clone a note

Compromised care process

Computer-based clinical protocol

Consent (informed or patient)

Continuity of care

Continuum of care

Data workflow

Diagnosis (Dx)

Diagnostic hypothesis

Diagnostic process

Direct data entry (DDE)

Direct patient care

Disaster drill
Discharge (DC)
Duplication in, duplication out (DIDO)
Electronic communication
Emergency department/room on divert
Encounter
External hospital transfer
Group visit
Healthcare team
Identical, related, and similar (IRS)
Immediate access
Indirect care
Individual instruction
Information reconciliation
Interdisciplinary care
Internal hospital transfer
Mapping physical locations
Medical record
Medication reconciliation
Messenger
Multidisciplinary care
Multitasking
Nursing care plan
Nursing intervention
Observation
Patient chart
Patient experience
Patient record
Patient triage
Patient-centered medical home (PCMH)
Personal care
Physical artifacts
Point of service
Practice parameter
Precede-proceed
Primary care
Process
Process modeling
Prognosis
Queuing
Register
Report generation
Request for appointment
Rounding

Rounds
Scribe
Secondary care
Shift
Sign
Standard of care
Stat
Structured encounter form
Summary care record
Surveillance
Sweep
Systems analysis
Task
To be determined (TBD)
Transcription
Transitions of care
Treatment plan
Turn around document
Unit dose dispensing
Unit dosing
User acceptance testing (UAT)
Work breakdown structure (WBS)
Work-arounds
Workflow analysis
Workflow elements model (WEM)
Workflow model
Working diagnosis